DIABETES
LITERATURE INDEX

NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

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DIABETES LITERATURE INDEX

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PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index.*

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated conditions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus;* because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus.* At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1,* "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2,* "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not appeared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

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1.C INSULIN

1.C.1 INSULIN, BIOCHEMISTRY RELATED

1.C.1.1 INSULIN, ISOLATION AND PURIFICATION

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1.C.7.1 INSULIN, DIAGNOSTIC USE

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1.C.7.3 INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)

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1.D.2.1 GLUCAGON, PHYSIOLOGY

1.D GLUCAGON

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1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE

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1.D.4 GLUCAGON, THERAPY RELATED

1.D.4.1 GLUCAGON, DIAGNOSTIC USE

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1.E.3 HYPERGLYCEMIA

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1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED

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1.E.3.6 HYPERGLYCEMIA, ETIOLOGY

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1.E.3.7 HYPERGLYCEMIA, METABOLISM

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1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY

RELATIONSHIPS BETWEEN FASTING PLASMA GLUCOSE LEVELS AND INSULIN SECRETION DURING INTRAVENOUS GLUCOSE TOLERANCE TESTS. Brunzell JD, Robertson RP, Lerner RL, Hazzard WR, Ensinck JW, Bierman EL, Porte D Jr *J Clin Endocrinol Metab 42: 222-9, Feb 76 (Eng)* DL/76AUG141

1.E.3.9 HYPERGLYCEMIA, URINE

1.E.4 GLYCOSURIA

[A BONE MARROW FACTOR CAUSING HYPERGLYCEMIA AND GLYCOSURIA: RELEASED GLUCOSE COMES FROM GENERAL GLYCOGENOLYSIS, ESPECIALLY IN MUSCLE] Thomas JA *C R Acad Sci [D] (Paris) 281: 1995-9, 22 Dec 75 (Fre)* DL/76AUG37

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1.E.4.3 GLYCOSURIA, DIAGNOSIS

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1.E.4.4 GLYCOSURIA, DRUG THERAPY

1.E.4.5 GLYCOSURIA, ENZYMOLOGY

1.E.4.6 GLYCOSURIA, ETIOLOGY

1.E.4.7 GLYCOSURIA, METABOLISM

1.E.4.8 GLYCOSURIA, OCCURRENCE

1.E.5 GLYCOSURIA, RENAL

[RENAL GLYCOSURIA (POSSIBILITY OF RELATION TO DIABETES MELLITUS)] Rames I, Vankova B *Vnitr Lek 22: 268-73, Mar 76 (Cze)* DL/76AUG361

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1.E.6.1 HYPOGLYCEMIA, BLOOD

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1.F.2 DIABETES MELLITUS

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1.F.4 DIABETES, PHYSIOPATHOLOGY

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[COURSES OF BLOOD SUGAR, INSULIN, GROWTH HORMONE, FREE FATTY ACIDS AND GLYCERIN FOLLOWING INTRAVENOUS AND ORAL GLUCOSE LOAD IN CHILDREN OF DIABETIC MOTHERS AND OF A HEALTHY CONTROL GROUP] Amendt P *Acta Paediatr Acad Sci Hung 16: 281-98, 1975 (Ger)* DL/76AUG415

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[FUTURE OF ENDOCRINOLOGY] Reig AA *Rev Iber Endocrinol 22: 393-482, Sep-Oct 75 (Spa)* [119] *DL/76AUG842

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1.F.7 DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS

1.F.7.1 DIABETES, OCCURRENCE

SKIN AND DIABETES. I. INCIDENCE OF DIABETES IN A SAMPLE OF HEALTHY SUBJECTS. Binazzi M, Lisi P, Calandra P *Ital Gen Rev Dermatol 11: 197-206, Sep-Dec 74 (Eng)* DL/76AUG127

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[SCREENING FOR HYPERLIPEMIA IN YOUNG ADULTS] Fromantin M, Freyria J, Drieu M, Bon R *Nouv Presse Med 5: 851-2, 27 Mar 76 (Fre)* DL/76AUG295

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1.F DIABETES

1.F.7.2 DIABETES, ETIOLOGY

1.F.7.3 DIABETES, CONGENITAL

1.F.7.4 DIABETES, FAMILIAL AND GENETIC

1.F.7.5 PREDIABETIC STATE

1.F.8 DIABETES, DIAGNOSIS RELATED

1.F.8.1 GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)

1.F.8.2 DIABETES, DIAGNOSIS

NOASSAY] Iacono G *Quad Sclavo Diagn 11: 218-38, Jun 75* (*Ita*) DL/76AUG327

[EARLY DETECTION OF DIABETES MELLITUS IN ADULTS AND FACTORS OF INCREASED RISK OF ITS DEVELOPMENT] Antonov IuS, Khizhniak MI *Ter Arkh 48: 114-9, 1976* (*Rus*) DL/76AUG349

[EVALUATION BY MULTIPLE REGRESSION ANALYSIS OF THE CLINICAL CHARACTERISTICS OF A SAMPLE OF ADULT-ONSET DIABETICS] Jequier JC, Gagnon MA, Annable L *Union Med Can 104: 935-43, Jun 75* (*Fre*) DL/76AUG355

[DETECTION AND PREVENTIVE MEDICAL EXAMINATION OF CHILDREN WITH A HEAVY HISTORY IN CONNECTION WITH DIABETES MELLITUS] Khodorovskaia IK, Bakhareva TP *Vopr Okhr Materin Det 20: 87, Sep 75* (*Rus*) DL/76AUG365

[DIRECTED LABORATORY DIAGNOSIS FOR THE GENERAL PRACTITIONER] Nord-Wurttemberg KV *ZFA 52: 285-303, 29 Feb 76* (*Ger*) DL/76AUG392

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[COURSES OF BLOOD SUGAR, INSULIN, GROWTH HORMONE, FREE FATTY ACIDS AND GLYCERIN FOLLOWING INTRAVENOUS AND ORAL GLUCOSE LOAD IN CHILDREN OF DIABETIC MOTHERS AND OF A HEALTHY CONTROL GROUP] Amendt P *Acta Paediatr Acad Sci Hung 16: 281-98, 1975* (*Ger*) DL/76AUG415

EFFECT OF LONG TERM USE OF ORAL CONTRACEPTIVES ON GLUCOSE TOLERANCE. Muck BR *Arch Gynaekol 220: 185-90, 5 Mar 76* (*Eng*) DL/76AUG460

1.F.9 DIABETES, THERAPY RELATED

1.F.9.1 DIABETES, PREVENTION AND CONTROL

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[THERAPY OF DIABETES MELLITUS TODAY] Seige K, Ulrich E *Z Gesamte Inn Med 30: 37-42, May 75* (*Ger*) DL/76AUG385

[DIAGNOSIS OF THE EARLY STAGES OF DIABETES AND PREVENTION OF DIABETES MANIFESTATIONS] Michaelis D, Neumann I, Schulz B *Z Gesamte Inn Med 30: 42-4, May 75* (*Ger*) DL/76AUG386

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DEFINITION OF DIETARY FIBER AND HYPOTHESES THAT IT IS A PROTECTIVE FACTOR IN CERTAIN DISEASES. Trowell H *Am J Clin Nutr 29: 417-27, Apr 76* (*Eng*) [74] DL/76AUG428

1.F.9.2 DIABETES, NUTRITION AND DIET THERAPY

1.F.9.2.1 OBESITY IN DIABETES

SKIN AND DIABETES. I. INCIDENCE OF DIABETES IN A SAMPLE OF HEALTHY SUBJECTS. Binazzi M, Lisi P, Calandra P *Ital Gen Rev Dermatol 11: 197-206, Sep-Dec 74* (*Eng*) DL/76AUG127

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1.F.9.2.2 GLUCOSE, THERAPEUTIC USE

PATHOGENESIS, DIAGNOSIS AND TREATMENT OF DIABETIC KETOACIDOSIS. Kogut MD *Curr Probl Pediatr 6: 1-35, Feb 76* (*Eng*) [177] DL/76AUG60

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[A FURTHER CASE OF MALIGNANT HYPERPYREXIA AND ITS TREATMENT WITH LIDOCAINE, METHYLPREDNISOLONE AND VERAPAMIL (IPROVERATRIL) (AUTHORS TRANSL)] Csongrady A, Bake I, Pfander C, Tarmann H, Schneider M, Buttazzoni E *Anaesthesist 25: 80-1, Feb 76* (*Ger*) DL/76AUG446

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1.F.9.2.6 DIETARY FATS

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1.F.9.2.7 CYCLAMATES

1.F.9.2.8 SACCHARIN

1.F.9.3 DIABETES, INSULIN AND THERAPY

1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE

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1.F.9.4 DIABETES, ANTIDIABETICS AND THERAPY

1.F.9.4.1 ANTIDIABETICS

1.F.9.4.2 TOLBUTAMIDE

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1.F.9.4.5 OTHER BIGUANIDES

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[LACTIC ACIDOSIS INDUCED BY EXCESSIVE INGESTION OF METFORMIN] Bismuth C, Gaultier M, Conso F, Heuclin C, Assan R *Nouv Presse Med 5: 261-3, 31 Jan 76 (Fre)* DL/76AUG298

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1.F.9.7 DIABETES, RADIOGRAPHY

1.F.9.8 DIABETES, SURGERY

CLINICAL SEGMENTAL PANCREATIC TRANSPLANTATION WITH URETER-TO-PANCREATIC DUCT ANASTOMOSIS FOR EXOCRINE DRAINAGE. Gliedman ML, Natale DL, Rifkin H, Soberman R, Freed S, Tellis V, Veith FJ *Bull Soc Int Chir 34: 15-20, 1975 (Eng)* DL/76AUG34

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1.F.9.9 DIABETES, MORTALITY

1.F.10 DIABETES, EXPERIMENTAL

1.F.10.1 DIABETES, CHEMICALLY INDUCED

ISLET TRANSPLANTATION INTO RAT LIVER: IN VITRO SECRETION OF INSULIN FROM THE ISOLATED PERFUSED LIVER AND IN VIVO GLUCAGON SUPPRESSION. Charles MA, Imagawa W, Forsham PH, Grodsky GM *Endocrinology 98: 738-42, Mar 76 (Eng)* DL/76AUG70

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1.F.10.2 ALLOXAN DIABETES

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1.F.10.2.1 ALLOXAN DIABETES, BLOOD

HYPOGLYCAEMIC EFFECTS OF ONION, ALLIUM CEPA LINN. ON DIABETES MELLITUS - A PRELIMINARY REPORT. Mathew PT, Augusti KT *Indian J Physiol Pharmacol 19: 213-7, Oct-Dec 75 (Eng)* DL/76AUG120

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1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY

1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY

1.F.10.2.4 ALLOXAN DIABETES, METABOLISM

EFFECT OF PITUITARY STALK LESION ON WATER AND CARBOHYDRATE METABOLISMS IN ALLOXAN-DIABETIC RATS. Laszlo FA, Durszt F, Varga P, Czako L *Endokrinologie 63: 294-303, 1974 (Eng)* DL/76AUG77

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1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY

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1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY

1.F.11 DIABETES, VETERINARY

1.F.12 DIABETES, HISTORY

SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

2.A ENDOCRINE PANCREAS

2.A.1 ISLETS (SEE SEC. 1.A)

2.A.2 INSULIN (SEE SEC. 1.C)

2.A.3 GLUCAGON (SEE SEC. 1.D)

2.B ADRENAL GLANDS

[RECEPTORS FOR POLYPEPTIDE HORMONES. PHYSIOLOGIC AND PATHOGENETIC SIGNIFICANCE] Frowein J, Petersen KG *Dtsch Med Wochenschr 101: 623-7, 16 Apr 76 (Ger)* DL/76AUG62

DEFINITION OF ANDROGENS AND PROTEIN ANABOLIC STEROIDS. Kochakian CD *Pharmacol Ther [B] 1: 149-77, 1975 (Eng) [442]* DL/76AUG324

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2.B.1 ADRENAL CORTEX

2.B.2 ADRENAL CORTEX HORMONES

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2.B.2.1.2 HYDROCORTISONE

EFFECT OF ACUTE CHANGES IN SERUM CALCIUM ON GLUCOSE TOLERANCE, BLOOD GLUCOSE, IRI AND CORTISOL LEVELS. Gero L, Szalay F, Steczek K, Tamas G Jr *Horm Metab Res 8: 151-2, Mar 76 (Eng)* DL/76AUG112

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2.B ADRENAL GLANDS

2.B.2.1.3 OTHER GLUCOCORTICOIDS

2.B.2.2 MINERALOCORTICOIDS

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2.B.3 ADRENAL MEDULLA

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2.F.3.3.1 CORPUS LUTEUM HORMONES

2.F.3.3.2 PROGESTATIONAL HORMONES

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2.G.2.6 JUVENILE HORMONES

2.G.3 CHROMAFFIN SYSTEM

2.G.4 PINEAL BODY

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ADIPOSE TISSUE BLOOD FLOW

ADIPOSE TISSUE BLOOD FLOW

ADIPOSE TISSUE, BROWN

ADIPOSE TISSUE CELLULARITY

ADIPOSE TISSUE METABOLISM

ADIPOSE TISSUE RESPONSE

ADIPOSE TISSUE, SUBCUTANEOUS

ADIPOSITY

ADOLESCENT

ADRENAL

ADRENAL MEDULLA

ADRENALINE

ADRENERGIC AMINE

ADRENERGIC ANTAGONISTS

BETA-ADRENERGIC RECEPTOR

ADRENOCORTICAL FUNCTION

ADRENOCORTICAL REGULATION

ADRENOCORTICAL SECRETION

ADRENOCORTICOTROPIC HORMONE

ADULT

ADULT MAN

ADULT ONSET

ALPHA CELL

ALPHA CELL

L-3H-ALPRENOLOL

AMINE, ADRENERGIC

AMINO ACID

AMINO ACID, BRAIN

AMINO ACID, FREE

AMINO ACID INFUSION

AMINO ACID METABOLISM

AMINO ACID TRANSPORT

AMMONIA

AMNIOTIC FLUID

AMPHIUMA

AMPUTATION

AMYLASE

AMYLOIDOSIS

ANABOLIC STEROID

ANALOGUE

ANALOGUE, GLUCOSE

ANALYTICAL ERROR

ANDROGEN

AORTA

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ATP

SEE ADENOSINE TRIPHOSPHATE

ATPASE

SEE ADENOSINE TRIPHOSPHATASE

AUTOANALYZER

[A MICROMETHOD FOR THE DETERMINATION OF GLUCOSE IN 20 MICROLITER SAMPLES WITH THE AUTOANALYZER (AUTHORS TRANSL.)] Holm H, Pianezzi A, Scholer A *Z Klin Chem Klin Biochem 13: 541-3, Dec 75 (Ger)* *DL/76AUG594

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AUTOIMMUNE REACTION

[INFECTION AND AUTOIMMUNE REACTION AS CAUSATIVE FACTORS OF DIABETES]

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BETA-GLUCURONIDASE

BETA-GLUCURONIDASE

BETA-MIMETIC DRUG

BIGUANIDE

BILE ACID

BILEAFLET MEMBRANE

BINDING

BINDING CAPACITY

BIOELECTROCHEMICAL CELL

BIOGENESIS

BIOPHYSICAL

BIPHASIC RESPONSE

BIRTH

BLADDER

BLEOMYCIN

BLOCKING AGENT

BLOOD

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BLOOD, VENOUS

BLOOD VOLUME

BLOOD-BRAIN TRANSFER

BODY

BODY COMPOSITION

BODY FLUID

BODY SIZE

BODY TEMPERATURE

BODY WEIGHT

BONE

BONE MARROW

BOWEL, SMALL

BRAIN

BRAN

BREAST CANCER, HUMAN

BREVIBACTERIUM LIQUEFACIENS

BRITISH

BROMOCRIPTINE

BRONCHIAL CARCINOMA

BROWNIAN MOTION

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BULLOSIS IDIOPATHICA

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CAROTENEMIC

CAROTENEMIC

CARRIER MEDIATED

CARTILAGE

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CATABOLITE REPRESSION

CATALYSIS

CATAMNESTIC FEATURE

CATARACT

CATECHOLAMINE

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CLINICAL EVALUATION

CLINICAL TRIAL

CLINICAL-CHEMICAL PARAMETER

CLOFIBRATE

CLONAL CHARACTERISTICS

CLONIDINE

COAGULATION, BLOOD

COCHLEA

COEFFICIENT

COENZYME A

COLD

COLD ACCLIMATION

COLD EXPOSURE

COLLAGEN

COLLAGENASE

COLON

COLORIMETRIC DETERMINATION

COMA

COMA, DIABETIC

COMA, HYPEROSMOLAR

COMA, HYPEROSMOLAR NONKETOTIC

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CORPUS LUTEUM

CORPUS LUTEUM

CORTEX, CEREBRAL

CORTEX, KIDNEY

CORTICOSTEROID

CORTICOSTEROID, PLASMA

CORTICOSTERONE

ALPHA1-24-CORTICOTROPIN

CORTISOL

CORTISOL, PLASMA

CORTISOL SECRETION

CORTISONE

COUPLING

COUPLING SITE

COXSACKIE VIRUS, GROUP B

CRANIOPHARYNGIOMA

CREATINE KINASE

CRYPTORCHIDISM, BILATERAL

CRYSTALLINE GLUCAGON

CULAEA INCONSTANS

CULTURE

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CYCLIC AMP

SEE ADENOSINE-3,5-CYCLIC-MONOPHOSPHATE

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DBCAMP

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A FAMILIAL SYNDROME OF PROGRESSIVE CONE DYSTROPHY, DEGENERATIVE LIVER DISEASE, ENDOCRINE DYSFUNC-

DEFECTIVE GLUCOSE TRANSPORT

224-816 O - 76 - 6

DIAGNOSTIC

DIAGNOSTIC

DIALYSIS

P-DIAZOBENZENESULPHONATE

DIAZOXIDE

DIBUTYRYL ADENOSINE-3,5-CYCLICMONOPHOSPHATE

DIENCEPHALO-PITUITARY DIAGNOSIS

DIET

DIET, CHEMICALLY DEFINED

DIET, FAT

DIET, LOW FAT

DIET, PROTEIN

DIET, STOCK

DIET, SYNTHETIC

DIETARY

DISORDER

DISORDER, SKIN

DISORDER, THYROID GLAND FUNCTION

DISSOCIATION

DIURETIC

DIURNAL VARIATION

D-CELL

D-XYLOSE ISOMERASE

DOMINICA

DONOR

DOPAMINE

DOSAGE

DRINKING

DRUG EFFECT

DRUG THERAPY

DUMPING SYNDROME

DYNAMICS

DYSPLASIA, EPIPHYSEAL

DYSTROPHY

DYSTROPHY, CONE

EALES DISEASE

EAR LOBE CREASE

EAR THICKNESS

ECTOPIC PITUITARY FUNCTION

45CA-EFFLUX

EHRLICH ASCITES TUMOR CELL

ELDERLY

ELECTRICAL STIMULATION

ELECTROCONVULSIVE

ELECTROCONVULSIVE THERAPY EFFECT

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ENERGY CONSERVATION

ENERGY CONSERVATION

ENERGY COUPLING

ENERGY METABOLISM

ENERGY POISON

ENERGY PRODUCTION

ENERGY SOURCE

ENERGY TRANSFER

ENTERAL ADMINISTRATION

ENZYME

ENZYME DIFFUSION, RADIAL

ENZYME, GLUCONEOGENIC

ENZYME INTERACTION

ENZYME, MITOCHONDRIAL

ENZYME PATTERN

ENZYME RELEASE

ENZYME, SOLUBILIZED

ENZYME SYNTHESIS

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FOOD

FOOD

FOOD INTAKE

FOOD, POLYUNSATURATED

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FULMINATING DIABETES

FUNDULUS DIAPHANUS

FUNDUS

FURAZOLIDONE

GALACTOMANNANS

GALACTOSE

D-GALACTOSE

GALACTOSEMIA

GASTRIC ACID SECRETION

GASTRIC EMPTYING

GASTRIC INHIBITORY POLYPEPTIDE

GASTRIC MUCOSA

GASTRIN SECRETION

GASTRIN, SERUM

GASTROINTESTINAL

GASTROINTESTINAL HORMONE

GENE

GLUCAGON RESPONSE

GLUCAGON RESPONSE

GLUCAGON SECRETION

GLUCAGON SENSITIVE

GLUCAGON SUPPRESSION

GLUCOCORTICOID

GLUCO-AMYLASE TEST

GLUCOMANNANS

GLUCONEOGENESIS

GLUCONEOGENESIS, RENAL

GLUCONEOGENIC ENZYME

GLUCOPRIVIC (2DG)

GLUCOREGULATION

GLUCOSE

EFFECT OF THERMAL STRESS AND DEHYDRATION ON PLASMA LEVELS OF GLUCOSE, FREE FATTY ACIDS AND GROWTH HORMONE IN THE PIGEON. John TM, Mckeown BA, George JC *Arch Int Physiol Biochim 83: 303-8, May 75 (Eng)* *DL/76AUG615

STIMULATION OF PHOSPHOENOLPYRUVATE CARBOXYKINASE (GUANOSINE TRIPHOSPHATE) ACTIVITY BY LOW CONCENTRATIONS OF CIRCULATING GLUCOSE IN PERFUSED RAT LIVER. Moreno FJ, Sanchez-Urrutia L, Medina JM, Sanchez-Medina F, Mayor F *Biochem J 150: 51-8, Jul 75 (Eng)* *DL/76AUG620

TWO-CARRIER MODELS FOR MEDIATED TRANSPORT. II. GLUCOSE AND GALACTOSE EQUILIBRIUM EXCHANGE EXPERIMENTS IN HUMAN ERYTHROCYTES AS A TEST FOR SEVERAL TWO-CARRIER MODELS. Eilam Y *Biochim Biophys Acta 401: 364-9, 2 Sep 75 (Eng)* *DL/76AUG623

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CORRELATION OF DEXTROSTIX VALUES WITH TRUE GLUCOSE IN THE RANGE LESS THAN 50 MG/DL. Frantz ID 3d, Medina G, Taeusch HW Jr *J Pediatr 87: 417-20, Sep 75 (Eng)* *DL/76AUG722

THE EFFECTS OF FEEDING STARCH, SUCROSE, GLUCOSE OR FRUCTOSE TO RATS DURING PREGNANCY AND EARLY LACTATION. Bourne AR, Richardson DP, Bruckdorfer KR, Yudkin J *Proc Nutr Soc 34: 80a-81a, Sep 75 (Eng)* *DL/76AUG772

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A SIMULATION MODEL OF EXTRACELLULAR GLUCOSE DISTRIBUTION IN THE HUMAN BODY. Tiran J, Galle KR, Porte D Jr *Ann Biomed Eng 3: 34-46, Mar 75 (Eng)* *DL/76AUG888

[CALCIUM, MAGNESIUM, PHOSPHORUS, CHLORIDE AND GLUCOSE IN THE BLOOD OF CATTLE FOLLOWING INTRAVENOUS INFUSION OF SOLUTIONS WITH VARIOUS CALCIUM AND MAGNESIUM CONCENTRATION AIMED AT IMPROVING THE TREATMENT OF HYPOMAGNESEMIA] Hadlich M, Kolb E *Arch Exp Veterinaermed 29: 379-95, Jun 75 (Ger)* *DL/76AUG904

14C-GLUCOSE

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3H-GLUCOSE

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[GLUCOSE CONCENTRATION IN BLOOD DURING EXERTION. 5. USE OF THE TOTAL DISTRIBUTION OF BLOOD GLUCOSE VALUES DURING PHYSICAL EXERCISE OR THE ESTIMATION OF RESPONSE TO EXERTION IN VARIOUS BREEDS OF SWINE] Bunger U, Steinhardt M, Riehm G, Gohler H, Bunger B, Lyhs L *Arch Exp Veterinaermed 29: 83-97, 1975 (Ger)* *DL/76AUG617

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GLUCOSE CLAMP

THE DEVELOPMENT OF A GLUCOSE CLAMP. Norwich KH, Fluker G, Anthony J, Popescu I, Pagurek B, Hetenyi G Jr *Metabolism 24: 1221-30, Nov 75 (Eng)* *DL/76AUG744

GLUCOSE CONCENTRATION

[GLUCOSE CONCENTRATION IN BLOOD DURING EXERTION. 5. USE OF THE TOTAL DISTRIBUTION OF BLOOD GLUCOSE

GLUCOSE DEHYDROGENASE

GLUCOSE DEHYDROGENASE

GLUCOSE DETERMINATION

GLUCOSE DIFFUSION

GLUCOSE, HYPERTONIC

GLUCOSE INDUCED INSULIN RELEASE

GLUCOSE INFUSION

GLUCOSE INTOLERANCE

GLUCOSE METABOLISM

GLUCOSE OXIDASE

GLUCOSE OXIDATION

GLUCOSE, PLASMA

GLUCOSE PRODUCTION

GLUCOSE REABSORPTION

GLUCOSE REGULATION CAPACITY

GLUCOSE RELEASE

GLUCOSE RESPONSE

GLUCOSE SYRUP

GLUCOSE TOLERANCE

224-816 O - 76 - 7

GLYCOGEN DEPOSIT

GLYCOGEN DEPOSIT

GLYCOGEN METABOLISM

GLYCOGEN, MUSCLE

GLYCOGEN PHOSPHORYLASE

GLYCOGEN SYNTHASE

GLYCOGENOLYSIS

GLYCOLYSIS

GLYCOLYSIS, ANAEROBIC

GLYCOLYTIC METABOLISM

GLYCOPROTEIN

GLYCOSAMINOGLYCAN, SULFATED

GLYCOSIDE, CARDIAC

GLYCOSURIA

GLYCOSURIA, RENAL

GLYCOSYL TRANSFER

GLYCOSYLATION

GONADAL FUNCTION

GONADOTROPIN

GONADOTROPIN, HUMAN CHORIONIC

GRANULOCYTE

BINDING AND DEGRADATION OF INSULIN BY HUMAN PERIPHERAL GRANULOCYTES. DEMONSTRATION OF SPECIFIC RECEPTORS WITH HIGH AFFINITY. Fussganger RD, Kahn CR, Roth J, De Meyts P *J Biol Chem 251: 2761-9, 10 May 76 (Eng)* DL/76AUG134

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IN VITRO INFLUENCE OF STEROIDAL HORMONES ON PROTEIN AND GLUCOSE METABOLISM OF ISOLATED GRANULOMATOUS TISSUE CELLS. Hikawyj I, Nocenti MR *Arch Int Pharmacodyn Ther 217: 86-96, Sep 75 (Eng)* *DL/76AUG900

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THE EFFECT OF SOMATOSTATIN ON PLASMA INSULIN AND GROWTH HORMONE LEVELS IN BASAL CONDITIONS AND AFTER GLUCAGON IN NORMAL AND ACROMEGALIC SUBJECTS. Massara F, Porzio G, Camanni F, Molinatti GM *Acta Diabetol Lat 12: 219-31, May-Aug 75 (Eng)* DL/76AUG404

[COURSES OF BLOOD SUGAR, INSULIN, GROWTH HORMONE, FREE FATTY ACIDS AND GLYCERIN FOLLOWING INTRAVENOUS AND ORAL GLUCOSE LOAD IN CHILDREN OF DIABETIC MOTHERS AND OF A HEALTHY CONTROL GROUP] Amendt P *Acta Paediatr Acad Sci Hung 16: 281-98, 1975 (Ger)* DL/76AUG415

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HALOGENATED HEXOSAMINE

HALOGENATED HEXOSAMINE

HAMBURG-EPPENDORF

HAMSTER, CHINESE

HAMSTER, SYRIAN

HAWAII

HEAD INJURY

HEARING

HEART

HEART ASSOCIATION, CHICAGO

HEART CELL

HEART DISEASE

HEART DISEASE, ISCHEMIC

HEART FAILURE

HEART, HYPOXIC

HEART MITOCHONDRIA

HEART MITOCHONDRIA, ISOLATED

HISTOPHYSIOLOGY, ISLET

HISTOPHYSIOLOGY, ISLET

HORMONAL CONTROL

HORMONAL FUNCTION

HORMONAL REGULATION

HORMONAL RESPONSE

HORMONE

HORMONE, GASTROINTESTINAL

HORMONE, HYPOTHALAMIC

HORMONE INDUCTION

HORMONE, POLYPEPTIDE

HORMONE, PROTEIN

HORMONE RECEPTOR

HORMONE RELEASE

HORMONE SECRETION

HORMONE, SEX

HORMONE, SOMATOTROPIC

HORMONE, STEROIDAL

HORMONE, THYROID

HOSPITAL

HYPERTENSION

HYPERTENSION

HYPERTENSIVE

HYPERTHYROIDISM

HYPERTONUS

HYPERTRIGLYCERIDEMIA

HYPERURICEMIA, FRUCTOSE-INDUCED

HYPOGLYCEMIA

HYPOGLYCEMIA, INSULIN

HYPOGLYCEMIC

HYPOGLYCIN

HYPOMAGNESEMIA

HYPONATREMIA

HYPOOSMOLARITY

HYPOPHOSPHATEMIA

HYPOPHYSECTOMY

HYPOPHYSIS

HYPOPITUITARY

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HYPOTHALAMO-HYPOPHYSEO-ADRENAL SYSTEM

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INFECTION

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INFECTION, VIRAL

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INSULIN, PLASMA

INSULIN, PLASMA

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INSULIN RECEPTOR

INSULIN RELEASE

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INSULINOMA, METASTATIC

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MYOCARDIUM

MYOCARDIUM

MYOCARDIUM, ANOXIC

MYOCARDIUM, HYPERTROPHIED

MYOCARDIUM, HYPOXIC

MYOCARDIUM, RIGHT VENTRICULAR

MYOCYTOLYSIS, ISOPROTERENOL

MYOTHERMIC STUDY

MYOTONIC DYSTROPHY

NEOGENESIS

NEONATAL

NEONATAL DECEREBRATION

NEONATE

NEPHRITIS

NEPHRON SEGMENTS, ISOLATED

NEPHROPATHY

NERVOUS SYSTEM

NERVOUS SYSTEM, AUTONOMIC

NESIDIOBLASTOSIS

NEURAL CONTROL INTAKE

NEURAL INHIBITION

NEURALGIA

NEUROHORMONAL PATHWAY

NEUROHYPOPHYSEAL

NEUROHYPOPHYSIAL PEPTIDE TARGET CELL

NEUROLEPTANALGESIA

NEUROLEPTIC

NEUROPATHIC COMPLICATION

OBESE CHILD

OBESE CHILD

OBESE HYPERGLYCEMIC

OBESE PATIENT

OBESITY

OCULAR PATHOLOGY

OCULAR PATHOLOGY, VASCULAR

OGTT

OLD AGE

OLEIC ACID

OLFACTORY BULB

OLIGOPEPTIDE

ONION

OPHTHALMOLOGY

ORAL ADMINISTRATION

ORAL ANTIDIABETIC DRUG

ORAL FRUCTOSE LOAD

ORAL GLUCOSE LOAD

ORAL GLUCOSE LOADING

ORAL GLUCOSE TOLERANCE

ORAL GLUCOSE TOLERANCE TEST

PANCREATIC ADENOMA

PANCREATIC ADENOMA

PANCREATIC ALLOTRANSPLANTATION

PANCREATIC BETA CELL

PANCREATIC DUCT ANASTOMOSIS

PANCREATIC ENZYME

PANCREATIC GLUCAGON

PANCREATIC ISCHEMIA

PANCREATIC ISLET

PANCREATIC ISLET, ISOLATED

PANCREATIC PSEUDOCYST

PANCREATIC TRANSPLANTATION

PANCREATITIS, CHRONIC

PARA AMINOSALICYLIC ACID

PARANEOPLASTIC HYPOGLYCEMIA

PARANEOPLASTIC SYNDROME

PARATHYROID HORMONE

PARENTERAL ADMINISTRATION

PARENTERAL FEEDING

PARENTERAL NUTRITION, TOTAL

PARIETAL CELL

PARIETAL DIGESTION

PAROTID

PAROTID GLAND

PARTURIENT

PENTOSE PHOSPHATE PATHWAY

PEPTIDE

PHOSPHOENOLPYRUVATE CARBOXYKINASE

PHOSPHOFRUCTOKINASE

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PLASMA METABOLITE

PLASMA PANCREATIC ENZYME

PLASMA SOMATOMEDIN

PLASMA-GLUCOSE LEVEL

PLATELET

PLATELET AGGREGATION

PLATELET BEHAVIOR

PLEOMORPHIC GLYCOGEN SITE

POLYAMINE

POLYCHLORINATED BIPHENYLS

POLYMER

POLYMORPHONUCLEAR LEUKOCYTE

POLYNEUROPATHY

POLYOL

POLYPEPTIDE, GASTRIC INHIBITORY

POLYPEPTIDE HORMONE

POLYPHOSPHOISOSITIDES

POLYUNSATURATED

POLYUNSATURATED BEEF-EATERS

POPULATION

PORE SIZE

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PREGNANCY, HIGH RISK

PREGNANCY, HIGH RISK

PREGNANT WOMAN

PRESSURE, BLOOD

PRESSURE, PERFUSION

PREVENTION

PROGESTERONE

PROGNOSIS

PRO-DIABAN

PROLACTIN

1,2-PROPANEDIOL

PROPIONIBACTERIUM SHERMANII

PROPRANOLOL

PROPYLTHIOURACIL

PROSTAGLANDIN

PROSTAGLANDIN E1

PROTAMINE

PROTEIN

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[DIABETES MELLITUS AND CONTROL OF PROTEIN BIOSYNTHESIS IN RAT LIVER (AUTHORS TRANSL)] Tragl KH *Wien Klin Wochenschr 87: 349-61, 30 May75 (Ger)* [50] DL/76AUG376

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PSEUDOCYST, PANCREATIC

PSEUDOMONAS DOUDOROFFII

PSYCHOSIS

PULMONARY TUBERCULOSIS

PURINE

PYRIDINOL CARBAMATE

PYRIMIDINE

PYROPHOSPHATE

PYRUVATE

PYRUVATE DEHYDROGENASE

PYRUVATE TRANSAMINATION

QUAIL, JAPANESE

QUATERNARY STRUCTURE

RABBIT, ALLOXAN DIABETIC

RADIATION

RADIOACTIVE FATTY ACID

RADIOIMMUNOASSAY

RADIOIMMUNOLOGIC DETERMINATION

RADIOIMMUNOLOGICAL DETERMINATION

RADIOMETRY

RADIORECEPTOR ASSAY

RAT, ALLOXAN DIABETIC

RAT, BD IX

RAT, FATTY ACID-DEFICIENT

RESISTANCE

RESISTANCE

RESPIRATION

REST

RETICULOCYTE

RETICULOENDOTHELIAL SYSTEM

RETICULUM, SARCOPLASMIC

RETINAL ANGIOPATHY, DIABETIC

RETINAL SCATTER

RETINOPATHY, DIABETIC

REVIEW

RHEUMATOID ARTHRITIS

RIBONUCLEIC ACID

RIBOSE

D-RIBOSE CATABOLISM

RIBOSOME

RIFAMPIN

RISK

RISK FACTOR

RISK FACTOR, CORONARY

RNA

SEE RIBONUCLEIC ACID

ROLITETRACYCLINE

SERUM CHOLESTEROL

SERUM CHOLESTEROL

SERUM GROWTH HORMONE

SERUM GROWTH HORMONE RESPONSE

SERUM INSULIN

SERUM LIPID

SERUM TRIGLYCERIDE

SEX

SEX DIFFERENCE

SEXUAL IMPOTENCE

SHANGHAI INSTITUTE

SHOCK

SH-REAGENT EFFECT

SIBLING

SIMULATION MODEL, EXTRACELLULAR

SKIN

SLEEP-WAKE CYCLE

SMOKING

SODIUM

SOMATOSTATIN

SOMATOTROPIC HORMONE

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STIMULUS-RESPONSE COUPLING

STIMULUS-RESPONSE COUPLING IN NEUROHYPOPHYSIAL PEPTIDE TARGET

SUGAR, BLOOD

SUGAR, BLOOD

SUGAR METABOLISM

SUGAR TRANSPORT

SUGAR UPTAKE

SUICIDE

SULFONYLUREA

SULFUR METABOLISM

SURFACE CHARGE

SURGERY

SURGICAL TREATMENT

SURVEY

SUSCEPTIBILITY

SYMPTOM

SYMPTOMATOLOGY

SYNDROME

SYNDROME, XYY

SYSTEMIC DISEASE

TAENIA COLI

TOAD BLADDER

TOAD BLADDER

INSULIN STIMULATES ACTIVE SODIUM TRANSPORT IN TOAD BLADDER BY TWO MECHANISMS. Wiesmann WP, Sinha S, Klahr S *Nature 260: 546-7, 8 Apr 76* (*Eng*) DL/76AUG272

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ACETATES (metabolism); ACETYL COA CARBOXYLASE (metabolism); ADIPOSE TISSUE (metabolism); ALCOHOL OXIDOREDUCTASES (metabolism); ALCOHOL, ETHYL (pharmacodynamics); ANIMAL EXPERIMENTS; ATP CITRATE LYASE (metabolism); CARBON DIOXIDE (metabolism); FATTY ACIDS, UNSATURATED (biosynthesis); FATTY LIVER (metabolism, chemically induced); LIPIDS (metabolism); MALE; MICE; PALMITATES (metabolism); PHOSPHATASES (metabolism); PHOSPHOTRANSFERASES, ATP (metabolism); TRIGLYCERIDES (biosynthesis).

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RESPIRATION RATES AND ADENOSINE TRIPHOSPHATE SYNTHESIS IN RAT LIVER MITOCHONDRIA: STATE 4-3-4 TRANSITION EXPERIMENTS. Archbold GP, Farrington CL, McKay AM, Malpress FH *Biochem Soc Trans 3: 504-7, 1975 (Eng)* *DL/76AUG685
ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (biosynthesis); ANIMAL; CATION EXCHANGE RESINS (pharmacodynamics); KINETICS; MEMBRANES (metabolism); MITOCHONDRIA, LIVER (metabolism, drug effects); MODELS, BIOLOGICAL; OXYGEN CONSUMPTION; RATS.

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ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (biosynthesis); ANIMAL; CATION EXCHANGE RESINS (pharmacodynamics); KINETICS; MEMBRANES (metabolism); MITOCHONDRIA, LIVER (metabolism); MODELS, BIOLOGICAL; POTASSIUM CHLORIDE (pharmacodynamics); RATS; SODIUM CHLORIDE (pharmacodynamics); SUCROSE (pharmacodynamics).

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EFFECT OF DIBUTYRYL CYCLIC AMP ON MYOCARDIAL PERFORMANCE IN VIVO. Cutilletta AF, Lin CY, Thilenius OG, Arcilla RA *Recent Adv Stud Cardiac Struct Metab 3: 251-9, 1973 (Eng)* *DL/76AUG794

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[EXPERIMENTAL STUDY OF MANGANESE CHLORIDE TOXICITY] Pashinskii VG, Tuzlukov AP, Rassokhin VM, Arefeva AK, Sedova KS *Farmakol Toksikol 38: 618-20, Sep-Oct 75 (Rus)* *DL/76AUG680

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EVIDENCE FOR IONIC PORES IN EXCITABLE MEMBRANES. Armstrong CM *Biophys J 15: 932-3, Sep 75 (Eng)* *DL/76AUG634
AXONS (metabolism); BIOLOGICAL TRANSPORT; ELECTRIC CONDUCTIVITY;

IONS; MEMBRANE POTENTIALS; POTASSIUM (metabolism); SODIUM (metabolism); SQUID.

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[VALUE OF PYRIDINOL CARBAMATE IN OCULAR VASCULAR PATHOLOGY (ANGIOXINE)] Boudet, Millet, Arnaud *Bull Soc Ophtalmol Fr 74: 977-80, Sep-Oct 74 (Fre)* DL/76AUG35

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TREADMILL EXERCISE TESTING OF MASS SCREENING FOR CORONARY RISK FACTORS. Allen WH, Aronow WS, De Cristofaro D *Cathet Cardiovasc Diagn 2: 39-48, 1976 (Eng)* DL/76AUG32

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SERUM LIPID LEVELS AND THEIR RELATIONSHIP WITH ISCHEMIC HEART DISEASE IN PIGS. Arora RB, Tayal G, Tariq M *Recent Adv Stud Cardiac Struct Metab 3: 795-803, 1973 (Eng)* *DL/76AUG814

AGE FACTORS; ANIMAL; AORTA (metabolism); CHOLESTEROL (blood, metabolism); CORONARY DISEASE (blood); CORONARY VESSELS (metabolism); LIPIDS (blood); MALE; PHOSPHOLIPIDS (blood); SWINE.

Arosio G

[CORONARY RISK FACTORS AND ISCHEMIC HEART DISEASE IN BUS DRIVERS AND CONDUCTORS] Rusconi C, Arosio G, Orlando G, Petroboni V, Riva S, Gola E, Benedini G, Cicogna R, Frau G, Prandini BD, Spandrio L, Feroldi P *Minerva Cardioangiol 23: 718-27, Nov 75 (Ita)* DL/76AUG275

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THE RESPONSE OF A BIOELECTROCHEMICAL CELL WITH SACCHAROMYCES CEREVISIAE METABOLIZING GLUCOSE UNDER VARIOUS FERMENTATION CONDITIONS. Videla HA, Arvia AJ *Biotechnol Bioeng 17: 1529-43, Oct 75 (Eng)* *DL/76AUG641

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EFFECT OF AGING ON LIPID METABOLISM. Goto Y, Nakamura H, Hata Y, Asano E, Takeuchi I *Keio J Med 24: 49-57, Apr 75 (Eng)* *DL/76AUG735

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RESISTANCE TO SLIMMING: ADIPOSE TISSUE CELLULARITY STUDIES. Ashwell M, Priest P, Bondoux M, Garrow JS *Proc Nutr Soc 34: 85a-86a, Sep 75 (Eng)* *DL/76AUG775

ADIPOSE TISSUE (cytology); ADULT; AGE FACTORS; BIOPSY, NEEDLE; CELL COUNT; DIET, REDUCING; HUMAN; HYPERPLASIA; LIPIDS (analysis); MIDDLE AGE; OBESITY (diet therapy).

Assan R

PERSISTING CIRCADIAN RHYTHM IN INSULIN, GLUCAGON, CORTISOL ETC. OF HEALTHY YOUNG WOMEN DURING CALORIC RESTRICTION (PROTEIN DIET). **PP. 88-93.** Reinberg A, Apfelbaum M, Assan R, Lacatis D *Int0 Scheving LE, et al., ed. Chronobiology. Tokyo, Igaku Shoin, 1974. QT 167 C557 1971. (Eng)* [28] DL/76AUG188

[LACTIC ACIDOSIS INDUCED BY BIGUANIDES] Assan R, Heuclin C, Girard JR, Attali JR *Nouv Presse Med 5: 247-9, 31 Jan 76 (Fre)* DL/76AUG297

ACIDOSIS (chemically induced); BIGUANIDES (adverse effects, therapeutic use); DIABETES MELLITUS (drug therapy); GLUCONEOGENESIS (drug effects); HUMAN; LACTATES (blood); PHENFORMIN (adverse effects, therapeutic use).

[LACTIC ACIDOSIS INDUCED BY EXCESSIVE INGESTION OF METFORMIN] Bismuth C, Gaultier M, Conso F, Heuclin C, Assan R *Nouv Presse Med 5: 261-3, 31 Jan 76 (Fre)* DL/76AUG298

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AN ANOMALY OF INSULIN REMOVAL IN PERFUSED LIVERS OF OBESE-HYPERGLYCEMIC (OB/OB) MICE. Karakash C, Assimacopoulos-Jeannet F, Jeanrenaud B *J Clin Invest 57: 1117-24, May 76 (Eng)* DL/76AUG148

DOES HYPERINSULINEMIA IN OB/OB MICE CAUSE AN INSULIN-STIMULATED ADIPOSE TISSUE Loten EG, Le Marchand Y, Assimacopoulos-Jeannet F, Denton RM, Jeanrenaud B *Am J Physiol 230: 602-7, Mar 76 (Eng)* DL/76AUG437

Astrug A

[CHANGES IN BLOOD COAGULATION IN DIABETIC NEPHROPATHY] Astrug A, Khristov L, Stamenova T *Vutr Boles 14: 69-75, 1975 (Bul)* DL/76AUG369

ADULT; AGED; BLOOD COAGULATION TESTS; BLOOD COAGULATION; BLOOD PLATELETS (physiology); CHRONIC DISEASE; DIABETES MELLITUS (physiopathology); DIABETIC NEPHROPATHIES (physiopathology); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE.

Attali JR

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Augusti KT

HYPOGLYCAEMIC EFFECTS OF ONION, ALLIUM CEPA LINN. ON DIABETES MELLITUS - A PRELIMINARY REPORT. Mathew PT, Augusti KT *Indian J Physiol Pharmacol 19: 213-7, Oct-Dec 75 (Eng)* DL/76AUG120

HYPOGLYCAEMIC ACTION OF BENGALENOSIDE, A GLUCOSIDE ISOLATED FROM FICUS BENGALENSIS LINN, IN NORMAL AND ALLOXAN DIABETIC RABBITS. Augusti KT *Indian J Physiol Pharmacol 19: 218-20, Oct-Dec 75 (Eng)* DL/76AUG121

ALLOXAN DIABETES (blood); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); COMPARATIVE STUDY; DEPRESSION, CHEMICAL; GLUCOSIDES (pharmacodynamics); GLYCOSIDES (pharmacodynamics); HYPOGLYCEMIC AGENTS; MALE; PLANT EXTRACTS (pharmacodynamics); RABBITS; TOLBUTAMIDE (pharmacodynamics).

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A STUDY OF SUBCUTANEOUS STAPHYLOCOCCAL INFECTION IN ALLOXAN DIABETIC MICE. Sood U, Agarwal DS, Aurora AL *Indian J Med Res 63: 1564-76, Nov 75 (Eng)* DL/76AUG118

Autuori F

BIOGENESIS OF MICROSOMAL MEMBRANE GLYCOPROTEINS IN RAT LIVER. II. PURIFICATION OF SOLUBLE GLYCOPROTEINS AND THEIR INCORPORATION INTO MICROSOMAL MEMBRANES. Autuori F, Svensson H, Dallner G *J Cell Biol 67: 700-14, Dec 75 (Eng)* *DL/76AUG536

ANIMAL EXPERIMENTS; BROMIDES; CYTOSOL (metabolism); DEOXYCHOLIC ACID (pharmacodynamics); GLUCOSAMINE (metabolism); GLYCOPROTEINS (metabolism, isolation & purification, analysis); LEUCINE (metabolism); LIPOPROTEINS (analysis, metabolism); MALE; MEMBRANES (metabolism); MICROSOMES, LIVER (metabolism, ultrastructure, drug effects); POTASSIUM; PROTEINS (metabolism, analysis); RATS; SIALIC ACIDS (metabolism); TEMPERATURE.

Axelrod J

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AN EXAMPLE OF LYOPHILIZED PROTEIN-BASED MATERIALS NOT SIMULATING PATIENT SERA. Steele BW, Koehler DF, Blaszkowski TP, Azar M *Clin Chem 21: 1812-4, Nov 75 (Eng)* *DL/76AUG659

Azhar S

ADENOSINE-3:5-MONOPHOSPHATE-DEPENDENT AND PLASMA-MEMBRANE-ASSOCIATED PROTEIN KINASE FROM BOVINE CORPUS LUTEUM. SOLUBILIZATION AND PROPERTIES OF SOLUBILIZED ENZYME. Azhar S, Menon KM *Eur J Biochem 58: 105-15, 1 Oct 75 (Eng)* *DL/76AUG674

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ANIMAL; CATIONS, DIVALENT; CATTLE; CELL MEMBRANE (enzymology, drug effects); CORPUS LUTEUM (enzymology, drug effects); CYTOSOL (enzymology); DETERGENTS; ENZYME ACTIVATION (drug effects); FEMALE; KINETICS; PROTEIN KINASE (metabolism); RECEPTORS, DRUG; SOLUBILITY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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THE APPLICATION OF FLUORESCENT PROBES IN MEMBRANE STUDIES. Azzi A *Q Rev Biophys 8: 237-316, May 75 (Eng)* [242] *DL/76AUG787

BINDING SITES; CATIONS, MONOVALENT; ELECTRON SPIN RESONANCE; ENERGY TRANSFER; MATHEMATICS; MEMBRANES (ultrastructure, analysis); MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; NUCLEAR MAGNETIC RESONANCE; REVIEW; SPECTROMETRY, FLUORESCENCE (methods); STRUCTURE-ACTIVITY RELATIONSHIP; TEMPERATURE; VISCOSITY; X-RAY DIFFRACTION.

Baadenhuijsen H

AN IMPROVED SEMI-AUTOMATED METHOD FOR THE COLORIMETRIC DETERMINATION OF TRIGLYCERIDES IN SERUM. Demacker PN, van Oppenraay JB, Baadenhuij-

sen H, Jansen AP *Clin Chim Acta 64: 45-50, 1 Oct 75 (Eng)* *DL/76AUG661

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THE EFFECTS OF THREE VAPORIZABLE FIRE EXTINGUISHING AGENTS ON MYOCARDIAL METABOLISM AND CARDIOVASCULAR DYNAMICS IN THE ANESTHETIZED DOG. Van Stee EW, Harris AM, Horton ML, Back KC *Toxicol Appl Pharmacol 34: 62-71, Oct 75 (Eng)* *DL/76AUG588

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[ACTIVITY OF SOMATOSTATIN-CONTAINING CELLS OF THE ILETS OF LANGERHANS IN EXPERIMENTAL DIABETES] Orci L, Baetens D, Rufener C, Amherdt M, Ravazzola M, Studer P, Malaisse-Lagae F, Unger RH *C R Acad Sci [D] (Paris) 281: 1883-5, 15 Dec 75 (Fre)* DL/76AUG36

[IMMUNOCYTOCHEMICAL IDENTIFICATION OF THE GLUCAGON-SECRETING CELLS IN GASTRIC MUCOSA] Baetens D, Rufener C, Unger RH, Renold AE, Orci L *C R Acad Sci [D] (Paris) 282: 195-7, 12 Jan 76 (Fre)* DL/76AUG39

ANIMAL EXPERIMENTS (analysis); DOGS; ENGLISH ABSTRACT; GASTRIC MUCOSA (cytology, secretion); GLUCAGON (secretion); IMMUNOCHEMISTRY; MICROSCOPY, ELECTRON; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

IDENTIFICATION OF GLUCAGON-PRODUCING CELLS (A CELLS) IN DOG GASTRIC MUCOSA. Baetens D, Rufener C, Srikant BC, Dobbs R, Unger R, Orci L *J Cell Biol 69: 455-64, May 76 (Eng)* DL/76AUG137

ANIMAL EXPERIMENTS (analysis); CYTOPLASMIC GRANULES (ultrastructure); DOGS; DUODENUM (cytology); FLUORESCENT ANTIBODY TECHNIC; GASTRIC MUCOSA (cytology); GLUCAGON (analysis); ILEUM (cytology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

HYPERTROPHY AND HYPERPLASIA OF SOMATOSTATIN-CONTAINING D-CELLS IN DIABETES. Orci L, Baetens D, Rufener C, Amherdt M, Ravazzola M, Studer P, Malaisse-Lagae F, Unger RH *Proc Natl Acad Sci USA 73: 1338-42, Apr 76 (Eng)* DL/76AUG318

Bagdade JD

GLUCOCORTICOIDS AND TRIGLYCERIDE TRANSPORT: EFFECTS ON TRIGLYCERIDE SECRETION RATES, LIPOPROTEIN LIPASE, AND PLASMA LIPOPROTEINS IN THE RAT. Bagdade JD, Yee E, Albers J, Pykalisto OJ *Metabolism 25: 533-42, May 76 (Eng)* DL/76AUG246

ANIMAL EXPERIMENTS (analysis); CHOLESTEROL (blood); DEXAMETHASONE (pharmacodynamics); GLUCOSE (metabolism); HYPERLIPEMIA (metabolism); INSULIN (metabolism); LIPOPROTEIN LIPASE (metabolism); LIPOPROTEINS (blood); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); MALE; RATS; TRIGLYCERIDES (blood, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Bahnson HT

THE USE OF EXPANDED MICROPOROUS POLYTETRAFLUOROETHYLENE FOR LIMB SALVAGE: A PRELIMINARY REPORT. Campbell CD, Brooks DH, Webster MW, Bahnson HT *Surgery 79: 485-91, May 76 (Eng)* DL/76AUG347

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HORMONAL CONTROL OF RENAL PHOSPHOENOLPYRUVATE CARBOXYKINASE ACTIVITY DURING DEVELOPMENT OF THE RAT. Hauser CA, Bailey E *Enzyme 21: 115-26, 1976 (Eng)* DL/76AUG83

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[A FURTHER CASE OF MALIGNANT HYPERPYREXIA AND ITS TREATMENT WITH LIDOCAINE, METHYLPREDNISOLONE AND VERAPAMIL (IPROVERATRIL) (AUTHORS TRANSL)] Csongrady A, Bake I, Pfander C, Tarmann H, Schneider M, Buttazzoni E *Anaesthesist 25: 80-1, Feb 76 (Ger)* DL/76AUG446

Baker RD

SUGAR TRANSPORT BY INTESTINE. ESCAPE OF GALACTOSE FROM PRELOADED MUCOSA OF HAMSTER JEJUNUM. Baker RD, Lo CS, Nunn AS *Biochim Biophys Acta 401: 429-39, 2 Sep 75 (Eng)* *DL/76AUG625

ANAEROBIOSIS; ANIMAL; BIOLOGICAL TRANSPORT (drug effects); GALACTOSE (metabolism); HAMSTERS; INTESTINAL MUCOSA (metabolism, drug effects); JEJUNUM (metabolism, drug effects); MALE; PHLORHIZIN (pharmacodynamics); SODIUM (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

Bakhareva TP

[DETECTION AND PREVENTIVE MEDICAL EXAMINATION OF CHILDREN WITH A HEAVY HISTORY IN CONNECTION WITH DIABETES MELLITUS] Khodorovskaia IK, Bakhareva TP *Vopr Okhr Materin Det 20: 87, Sep 75 (Rus)* DL/76AUG365

Balabolkin MI

[LEVEL OF SOMATOTROPIC HORMONES IN THE NEWBORN, THE PARTURIENT AND THE AMNIOTIC FLUID] Balabolkin MI, Ianshyna MN *Pediatr Akush Ginekol 37-9, Nov-Dec 75 (Ukr)* *DL/76AUG580

AMNIOTIC FLUID (analysis); FEMALE; HUMAN; INFANT, NEWBORN; MALE; PLACENTA (analysis); SOMATOTROPIN (analysis, blood).

Balasse E

[LIPOATROPHIC DIABETES] de Dobbeleer G, Dive M, Balasse E *Arch Belg Dermatol 30: 107-9, Apr-Jun 74 (Fre)* DL/76AUG453

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ACID INHIBITON IN INSULIN TEST- A PRELIMINARY REPORT. Venkataraman MS, Balasubramaniam V, Kanaka TS, Nanjunda Rao R *Indian J Physiol Pharmacol 19: 207-12, Oct-Dec 75 (Eng)* DL/76AUG119

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[USE OF DOPAMINE IN THE TREATMENT OF CARDIOGENIC SHOCK. PRELIMINARY RESULTS] Chiche P, Baligadoo S *Ann Anesthesiol Fr 16: 705-10, Dec 75 (Fre)* DL/76AUG448

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THE RESPONSE OF BLOOD FLOW TO ALTERED PERFUSION PRESSURE IN CANINE ADIPOSE TISSUE. Ballard K, Alliapoulos JC *Proc Soc Exp Biol Med 150: 65-70, Oct 75 (Eng)* *DL/76AUG780

ADIPOSE TISSUE (blood supply); ANIMAL; BLOOD FLOW VELOCITY; BLOOD PRESSURE; DENERVATION; DOGS; FEMALE; MALE; REGIONAL BLOOD FLOW; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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HORMONAL CONTROL OF GLUCOSE PRODUCTION BY AMPHIUMA MEANS LIVER IN ORGAN CULTURE. Brown D, Fleming N, Balls M *Gen Comp Endocrinol 27: 380-8, Nov 75 (Eng)* DL/76AUG103

Baltac C

[EARLY ADAPTATION OF PREMATURE INFANTS (HEMATOLOGICAL AND BIOCHEMICAL ASPECTS)] Rusu O, Bulat E, Iorgulescu M, Deciu L, Baltac C, Kloss D *Rev Pediatr Obstet Ginecol [Pediatr] 24: 37-47, Jan-Mar 75 (Rum)* *DL/76AUG840

Banauch D

[A GLUCOSE DEHYDROGENASE FOR THE DETERMINATION OF GLUCOSE CONCENTRATIONS IN BODY FLUIDS (AUTHORS TRANSL)] Banauch D, Brummer W, Ebeling W, Metz H, Rindfrey H, Lang H, Leybold K, Rick W, Staudinger HJ *Z Klin Chem Klin Biochem 13: 101-7, Mar 75 (Ger)* *DL/76AUG865

ALCOHOL OXIDOREDUCTASES (isolation & purification); AUTOANALYSIS; BACILLUS MEGATERIUM (enzymology); BLOOD SUGAR (analysis); CARBOHYDRATE ISOMERASES; COLORIMETRY; COMPARATIVE STUDY; ENGLISH ABSTRACT; GLUCOSE (analysis); HUMAN; KINETICS; METHODS; NADH, NADPH OXIDOREDUCTASES; SPECTROPHOTOMETRY, ULTRAVIOLET.

Bandisode MS

CLINICAL EVALUATION OF A NEW SULFONYLUREA IN MATURITY ONSET DIABETES - GLIPIZIDE (K-4024). Bandisode MS, Boshell BR *Horm Metab Res 8: 89-91, Mar 76 (Eng)* DL/76AUG114

ADULT; AGED; CHLORPROPAMIDE (therapeutic use); CLINICAL RESEARCH; DIABETES MELLITUS (drug therapy); DOSE-RESPONSE RELATIONSHIP, DRUG); DRUG EVALUATION; DRUG THERAPY, COMBINATION; FOLLOW-UP STUDIES; GLIPIZIDE (therapeutic use); HUMAN; MIDDLE AGE; PHENFORMIN (therapeutic use); SULFONYLUREA COMPOUNDS (therapeutic use); TOLBUTAMIDE (therapeutic use).

Bangham DR

RADIOIMMUNOASSAY AND SATURATION ANALYSIS. STANDARDIZATION AND STANDARDS. Bangham DR, Cotes PM *Br Med Bull 30: 12-7, Jan 74 (Eng)* *DL/76AUG642

HORMONES (analysis); RADIOIMMUNOASSAY (standards); RADIOLIGAND ASSAY (standards).

Barakat H

CHANGES IN MUSCLE MITOCHONDRIAL LIPID COMPOSITION RESULTING FROM TRAINING AND EXHAUSTIVE EXERCISE. Dohm GL, Barakat H, Stephenson TP, Pennington SN, Tapscott EB *Life Sci 17: 1075-80, 10 Oct 75 (Eng)* *DL/76AUG574

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PANCREATIC ISCHAEMIA; SENSITIVITY AND REVERSIBILITY OF THE CHANGES. Slater DN, Bardsley D, Mangnall Y, Smythe A, Fox M *Br J Exp Pathol 56: 530-6, Dec 75 (Eng)* DL/76AUG1

Barfod NM

[FLUIDITY OF THE CELL SURFACE] Larsen B, Barfod NM *Ugeskr Laeger 137: 2633-5, 3 Nov 75 (Dan)* *DL/76AUG857

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[PLASMA CALCITONIN LEVELS AND METABOLIC EFFECTS OF PORCINE CALCITONIN IN NEWBORN LAMBS (AUTHORS TRANSL)] Barlet JP, Michel MC, Theriez M, Savajol H, Garel JM *J Physiol (Paris) 68: 519-29, 1974 (Fre)* *DL/76AUG554

ADMINISTRATION, ORAL; AMINO ACIDS (blood); ANIMAL EXPERIMENTS; ANIMAL

Barna K

NUTRITION; ANIMALS, NEWBORN (physiology); BLOOD SUGAR (analysis); CALCITONIN (blood, pharmacodynamics, administration & dosage); CALCIUM (pharmacodynamics, blood); COLOSTRUM; ENGLISH ABSTRACT; FEMALE; FRUCTOSE (blood); GASTRIN (pharmacodynamics); INJECTIONS, INTRAVENOUS; LIPIDS (blood); MALE; SHEEP (physiology).

Barna K

THE INFLUENCE OF ROLITETRACYCLINE UPON SOME METABOLIC PARAMETERS OF RABBIT HEART MUSCLE. Belova V, Barnova E, Barna K *Biochem Pharmacol 24: 1875-7, 15 Oct 75 (Eng)* *DL/76AUG918

Barnard GD

LOWERING OF PLASMA CHOLESTEROL LEVELS IN FREE-LIVING ADOLESCENT MALES; USE OF NATURAL AND SYNTHETIC POLYUNSATURATED FOODS TO PROVIDE BALANCED FAT DIETS. Stein EA, Mendelsohn D, Fleming M, Barnard GD, Carter KJ, du Toit PS, Hansen JD, Bersohn I *Am J Clin Nutr 28: 1204-16, Nov 75 (Eng)* *DL/76AUG879

Barner HB

VASCULITIS IN MATURITY-ONSET DIABETES MELLITUS. Barner HB *JAMA 235: 2495, 7 Jun 76 (Eng)* DL/76AUG208
ADULT; ATHEROSCLEROSIS (complications); CORONARY VESSELS (surgery); DIABETES MELLITUS (complications); DIABETIC ANGIOPATHIES (complications); HUMAN; INFLAMMATION (complications); LEG (blood supply); VASCULAR SURGERY.

Barnes AJ

LETTER: DIABETES WITHOUT GLUCAGON. Barnes AJ, Bloom SR, Alford FP, Russell RC *Lancet 1: 967, 1 May 76 (Eng)* DL/76AUG232
BLOOD SUGAR (analysis); CASE REPORT; DIABETES MELLITUS (blood); GLUCAGON (blood, physiology); HUMAN; MALE.

Barnes HV

AN APPROACH TO THE OBESE ADOLESCENT. Barnes HV, Berger R *Med Clin North Am 59: 1507-16, Nov 75 (Eng)* *DL/76AUG741
ADOLESCENCE; BEHAVIOR MODIFICATION; DIAGNOSIS, DIFFERENTIAL; DIET, REDUCING; HUMAN; OBESITY (diagnosis, metabolism, therapy).

Barnes LD

GLUCAGON-SENSITIVE ADENYLATE CYCLASE IN HUMAN RENAL MEDULLA. Mulvehill JB, Hui YS, Barnes LD, Palumbo PJ, Dousa TP *J Clin Endocrinol Metab 42: 380-4, Feb 76 (Eng)* DL/76AUG143

Barnhorst DA

THE CONTROL OF ENERGY PRODUCTION AND UTILIZATION IN CARDIAC MUSCLE. Olson RE, Barnhorst DA *Recent Adv Stud Cardiac Struct Metab 3: 11-30, 1973 (Eng)* *DL/76AUG788

Barnova E

THE INFLUENCE OF ROLITETRACYCLINE UPON SOME METABOLIC PARAMETERS OF RABBIT HEART MUSCLE. Belova V, Barnova E, Barna K *Biochem Pharmacol 24: 1875-7, 15 Oct 75 (Eng)* *DL/76AUG918

Barta L

SUGAR METABOLISM IN OBESE CHILDREN. Barta L, Esztergalyos J, Szolnoki J *Acta Paediatr Acad Sci Hung 16: 209-13, 1975 (Eng)* DL/76AUG414
ADOLESCENCE; AGE FACTORS; BLOOD SUGAR (metabolism); CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (blood, diagnosis); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); MALE; OBESITY (blood, diagnosis); PREDIABETIC STATE (blood, diagnosis).

Bartak V

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ACETATES (metabolism); ADIPOSE TISSUE (metabolism, drug effects); ANIMAL; CARBON RADIOISOTOPES; DOSE-RESPONSE RELATIONSHIP, DRUG; EPINEPHRINE (pharmacodynamics); FATTY ACIDS (biosynthesis); FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE (metabolism); GOATS (metabolism); HYDROXYBUTYRATES (pharmacodynamics); LIPID MOBILIZATION (drug effects); MALE.

Bartsch R

[STUDY ON THE CHRONIC TOXICITY OF 1-(4-CYCLOHEXYLUREIDOPHENOXY)-2-HYDROXY-3-TERT-BUTYLAMINOPROPANE(TALINOLOL, CORDANUM, 02-115) IN THE RAT AND THE BEAGLE] Bartsch R, Merbt EM, Riedel H *Pharmazie 30: 659-68, Oct 75 (Ger)* *DL/76AUG583
ADRENERGIC BETA RECEPTOR BLOCKADERS (toxicity, administration & dosage); ALANINE AMINOTRANSFERASE (blood); ALKALINE PHOSPHATASE (blood); ANIMAL EXPERIMENTS; ASPARTATE AMINOTRANSFERASE (blood); BLOOD CELL COUNT; BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); DOGS; DOSE-RESPONSE RELATIONSHIP, DRUG; ENDOCRINE GLANDS (drug effects); FEMALE; HEART (drug effects); HEMOGLOBINOMETRY; LUNG (drug effects); MALE; PROPANOLAMINES (toxicity, administration & dosage); RATS; SPLEEN (drug effects).

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[HETEROGENEITY OF PROTEIN HORMONES IN RADIOIMMUNOASSAY] Rosselin G, Bataille D, Laburthe M, Duran-Garcia S *Pathol Biol (Paris) 23: 793-803, Dec 75 (Fre)* DL/76AUG282

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EFFECTS OF OLEIC ACID INFUSION ON PLASMA FREE FATTY ACIDS AND BLOOD KETONE BODIES IN THE FASTING RAT. Bates MW, Linn LC, Huen AH *Metabolism 25: 361-73, Apr 76 (Eng)* DL/76AUG240
ANIMAL EXPERIMENTS (analysis); AORTA; BLOOD SUGAR (metabolism); FASTING; FATTY ACIDS, NONESTERIFIED (blood, metabolism); INFUSIONS, PARENTERAL; INSULIN (blood, pharmacodynamics); KETONE BODIES (blood, metabolism); LIVER (metabolism); LUNG (metabolism); MALE; OLEIC ACIDS (administration & dosage, pharmacodynamics); RATS; TAIL; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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[RECURRENT ULCER FOLLOWING VAGOTOMY: COMPLETION OF VAGOTOMY OR RESECTION (AUTHORS TRANSL)] Bauer H, Holle F *Munch Med Wochenschr 118: 453-6, 9 Apr 76 (Ger)* DL/76AUG260
ENGLISH ABSTRACT; GASTRECTOMY (methods); GASTRIC JUICE (analysis); GASTRIN (blood); GASTROSCOPY; GLUCAGON (diagnostic use); HUMAN; HYPERPARATHYROIDISM (complications); INSULIN (diagnostic use); PEPTIC ULCER (diagnosis, etiology, surgery); RECURRENCE; VAGOTOMY (methods); ZOLLINGER-ELLISON SYNDROME (complications, metabolism).

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ANIMAL EXPERIMENTS; ANIONS; BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE (metabolism, drug effects); GLUCOSE (metabolism); GRAMICIDINS (pharmacodynamics); KIDNEY TUBULES, PROXIMAL (metabolism, drug effects); MANNITOL (metabolism); MODELS, BIOLOGICAL; NIGERICIN (pharmacodynamics); OSMOLAR CONCENTRATION; RABBITS; SODIUM (pharmacodynamics); VALINOMYCIN (pharmacodynamics).

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ANIMAL EXPERIMENTS; CARBON DIOXIDE (biosynthesis); CARTILAGE (metabolism, surgery); CARTILAGE, ARTICULAR (metabolism, surgery); COMPARATIVE STUDY; EPIPHYSES (metabolism, surgery); GLUCOSE (metabolism); GLYCOSAMINOGLYCANS (metabolism); KINETICS; LACTATES (biosynthesis); OSTEOTOMY; SULFUR RADIOISOTOPES (metabolism); SWINE; ULNA (metabolism, surgery).

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ANIMAL; BLOOD SUGAR (analysis); DEPRESSION, CHEMICAL; FEMALE; GLUCOSE (metabolism); GLYCOGEN (metabolism); GLYCOLYSIS (drug effects); IN VITRO; LACTATES (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); PHOSPHATES, INORGANIC (metabolism); RABBITS; ROLITETRACYCLINE (pharmacodynamics).

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[CORONARY RISK FACTORS AND ISCHEMIC HEART DISEASE IN BUS DRIVERS AND CONDUCTORS] Rusconi C, Arosio G, Orlando G, Petroboni V, Riva S, Gola E, Benedini G, Cicogna R, Frau G, Prandini BD, Spandrio L, Feroldi P *Minerva Cardioangiol 23: 718-27, Nov 75 (Ita)* DL/76AUG275

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ANIMAL FEED; ANIMAL NUTRITION; ANIMAL; BLOOD SUGAR (analysis); BODY WEIGHT; EXERTION; FEMALE; HORSES (physiology); MALE.

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ADULT; AGED; BLOOD PRESSURE (drug effects); DIABETES MELLITUS (physiopathology); FEMALE; HEART RATE (drug effects); HUMAN; MALE; MIDDLE AGE; PHENYLEPHRINE (pharmacodynamics); PRESSORECEPTORS (physiopathology); REFLEX; VALSALVAS MANEUVER.

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ADULT; AGE FACTORS; AGED; BLOOD PROTEINS (analysis); BLOOD SUGAR (analysis); BODY HEIGHT; BODY WEIGHT; FAMILY CHARACTERISTICS; FEMALE; HUMAN; MALE; MARRIAGE; MIDDLE AGE; NEW ZEALAND; OBESITY (occurrence, blood); OCCUPATIONS; SEX FACTORS; URIC ACID (blood).

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ACID-BASE EQUILIBRIUM; ADULT; AMINO ACIDS (administration & dosage); AMINOTRANSFERASES (metabolism); BILIRUBIN (blood); BLOOD VOLUME; CARBOHYDRATES (metabolism); ENGLISH ABSTRACT; FRUCTOSE (metabolism); GLUCOSE (metabolism); HUMAN; INSULIN (blood); MALE; OXALATES (blood); PARENTERAL FEEDING; TRIGLYCERIDES (blood); URIC ACID (blood, urine); WATER-ELECTROLYTE BALANCE; XYLITOL (metabolism).

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ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); DIET; DOGS; FASTING; GLUCOSE (secretion); INTESTINAL MUCOSA (secretion); INTESTINE, SMALL (metabolism); TIME FACTORS.

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ALCALIGENES (enzymology); ANIMAL EXPERIMENTS (analysis); EVALUATION STUDIES; FEMALE; HYDROXYBUTYRATE DEHYDROGENASE (analysis, metabolism); HYPERGLYCEMIA (enzymology); ISLANDS OF LANGERHANS (enzymology); KINETICS; LUCIFERASE; MALE; METHODS; MICE; MICE, OBESE; MICROCHEMISTRY; PHILIPPINES (physiology); SPECTROMETRY, FLUORESCENCE (methods).

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ANDROGENS (secretion); ESTROGENS (urine); FEMALE; GALACTORRHEA (drug therapy); GONADOTROPINS, PITUITARY (physiology); HUMAN; INSULIN (pharmacodynamics); MALE; PITUITARY GLAND (drug effects); PREGNANCY; PROLACTIN (secretion); THYROTROPIN RELEASING HORMONE (pharmacodynamics); 2-BROMOERGOCRYPTINE (therapeutic use).

Betz AL

ACCELERATIVE EXCHANGE DIFFUSION KINETICS OF GLUCOSE BETWEEN BLOOD AND BRAIN AND ITS RELATION TO TRANSPORT DURING ANOXIA. Betz AL, Gilboe DD, Drewes LR *Biochim Biophys Acta 401: 416-28, 2 Sep 75 (Eng)* *DL/76AUG624
ANIMAL; ANOXIA (metabolism); BLOOD SUGAR (metabolism); BLOOD-BRAIN BARRIER; BRAIN (metabolism); COMPARATIVE STUDY; DIFFUSION; DOGS; GLUCOSE (metabolism); KINETICS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Bhan AK

EFFECT OF PHYSICAL CONDITIONING UPON METABOLISM AND PERFORMANCE OF THE RAT HEART. Scheuer J, Penpargkul S, Bhan AK *Recent Adv Stud Cardiac Struct Metab 3: 145-59, 1973 (Eng)* *DL/76AUG789

Bhatnagar R

MASKING OF PLEOMORPHIC GLYCOGEN SITES BY METHANOLIC URANYL ACETATE. Bhatnagar R, Leeson TS *Stain Technol 50: 213-7, Jul 75 (Eng)* *DL/76AUG853
ACETATES; ALCOHOL, METHYL; ANIMAL; GLYCOGEN (isolation & purification); LIVER GLYCOGEN (isolation & purification); RATS; RIBONUCLEOPROTEINS (isolation & purification); STAINS AND STAINING; URANIUM.

Bibergeil H

[ETIOPATHOGENESIS OF DIABETES MELLITUS TODAY (CONTINUATION)] Bibergeil H *Z Gesamte Inn Med 30: 33-6 concl, May 75 (Ger)* DL/76AUG384
ADIPOSE TISSUE (physiopathology); DIABETES MELLITUS (etiology); DIET; ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (physiology); MUSCLES (physiopathology); OBESITY IN DIABETES (physiopathology); PANCREAS (physiopathology).

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LIVER MICROSOMAL BETA-GLUCURONIDASE AND UDP-GLUCURONYLTRANSFERASE. Schollhammer I, Poll DS, Bickel MH *Enzyme 20: 269-76, 1975 (Eng)* *DL/76AUG496

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ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL; BROWN FAT (metabolism, cytology); CARBONYL CYANIDE P-TRIFLUOROMETHOXYPHENYL-HYDRAZONE (pharmacodynamics); DEOXYGLUCOSE (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (metabolism); HAMSTERS; MITOCHONDRIA (metabolism); NITROGEN (pharmacodynamics); NOREPINEPHRINE (pharmacodynamics); OXYGEN CONSUMPTION (drug effects); PALMITIC ACIDS (pharmacodynamics); SERUM ALBUMIN, BOVINE (pharmacodynamics).

Bierman EL

OBESITY, CARBOHYDRATE, AND LIPID INTERACTIONS IN THE ELDERLY. Bierman EL *Curr Concepts Nutr 4: 171-6, 1976 (Eng) [19]* DL/76AUG59
ADULT; AGE FACTORS; AGED; AGING; ATHEROSCLEROSIS (etiology); BLOOD SUGAR (metabolism); BODY COMPOSITION; BODY CONSTITUTION; CARBOHYDRATES (metabolism); CHOLESTEROL (blood); DIABETES MELLITUS (etiology); ENERGY METABOLISM; FEMALE; HUMAN; LIPIDS (metabolism); MALE; OBESITY (metabolism); REVIEW; SEX FACTORS; TRIGLYCERIDES (blood).

RELATIONSHIPS BETWEEN FASTING PLASMA GLUCOSE LEVELS AND INSULIN SECRETION DURING INTRAVENOUS GLUCOSE TOLERANCE TESTS. Brunzell JD, Robertson RP, Lerner RL, Hazzard WR, Ensinck JW, Bierman EL, Porte D Jr *J Clin Endocrinol Metab 42: 222-9, Feb 76 (Eng)* DL/76AUG141

Bignall KE

EFFECT OF NEONATAL DECEREBRATION ON THERMOGENESIS DURING STARVATION AND COLD EXPOSURE IN THE RAT. Bignall KE, Heggeness FW, Palmer JE *Exp Neurol 49: 174-88, Oct 75 (Eng)* *DL/76AUG679
ANIMAL; ANIMALS, NEWBORN; BASAL METABOLISM; BLOOD SUGAR (metabolism); BODY TEMPERATURE REGULATION; COLD; DECEREBRATE STATE (physiopathology); FEMALE; HYPOTHALAMUS (physiology); MALE; OXYGEN CONSUMPTION; PONS (physiology); RATS; STARVATION (physiopathology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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[IMMUNO-REACTIVE INSULIN-LIKE SUBSTANCES IN THE RAT] Felix JM, Sutter-Dub MT, Legrele C, Billaudel B, Sutter BC, Jacquot R *Pathol Biol (Paris) 23: 841-8, Dec 75 (Fre)* DL/76AUG283

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SKIN AND DIABETES. I. INCIDENCE OF DIABETES IN A SAMPLE OF HEALTHY SUBJECTS. Binazzi M, Lisi P, Calandra P *Ital Gen Rev Dermatol 11: 197-206, Sep-Dec 74 (Eng)* DL/76AUG127
ADOLESCENCE; ADULT; AGED; CHILD; DIABETES MELLITUS (familial & genetic, occurrence); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; ITALY); MALE; MIDDLE AGE; OBESITY IN DIABETES (occurrence).

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DECREASED SUSCEPTIBILITY TO THROMBIN AND COLLAGEN PLATELET AGGREGATION IN MAN FED A LOW FAT DIET. Iacono JM, Binder RA, Marshall MW, Schoene NW, Jencks JA, Mackin JF *Haemostasis 3: 306-18, 1974 (Eng)* *DL/76AUG689

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LIPID METABOLISM IN HUMAN CORONARY ARTERIES. Bing RJ, Morita T, Hashimoto H, Larsen E *Recent Adv Stud Cardiac Struct Metab 3: 53-8, 1973 (Eng)* *DL/76AUG803
ACETATES (metabolism); ARTERIES (metabolism); ATHEROSCLEROSIS (metabolism); CHOLESTEROL (biosynthesis); CORONARY VESSELS (metabolism); HUMAN; LIPIDS (biosynthesis); VEINS (metabolism).

MITOCHONDRIAL FUNCTION AND EXCITATION-CONTRACTION COUPLING IN THE DEVELOPMENT OF ALCOHOLIC CARDIOMYOPATHY. Pachinger O, Mao J, Fauvel JM, Bing RJ *Recent Adv Stud Cardiac Struct Metab 5: 423-9, 1975 (Eng)* *DL/76AUG834

THE EFFECT OF CARBON MONOXIDE ON LIPID METABOLISM OF HUMAN CORONARY ARTERIES. Sarma JS, Tillmanns H, Ikeda S, Bing RJ *Atherosclerosis 22: 193-8, Sep-Oct 75 (Eng)* *DL/76AUG922

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OBESITY IN A NEW ZEALAND COMMUNITY. Benson-Cooper D, Bird D, Laing JK, Hannah EE, Carrell RW, Beaven DW *NZ Med J 82: 115-9, 27 Aug 75 (Eng)* *DL/76AUG754

Birky CW Jr

EFFECTS OF GLUCOSE REPRESSION OF THE TRANSMISSION AND RECOMBINATION OF MITOCHONDRIAL GENES IN YEAST (SACCHAROMYCES CEREVISIAE). Birky CW Jr *Genetics 80: 695-709, Aug 75 (Eng)* *DL/76AUG509
CHLORAMPHENICOL (pharmacodynamics); CROSSES, GENETIC; DRUG RESISTANCE, MICROBIAL; ERYTHROMYCIN (pharmacodynamics); EXTRACHROMOSOMAL INHERITANCE; GENES, REGULATOR; GENOTYPE; GLUCOSE (metabolism); MITOCHONDRIA; MUTATION; OLIGOMYCIN (pharmacodynamics); RECOMBINATION, GENETIC; SACCHAROMYCES CEREVISIAE (metabolism, drug effects); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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[LACTIC ACIDOSIS INDUCED BY EXCESSIVE INGESTION OF METFORMIN] Bismuth C, Gaultier M, Conso F, Heuclin C, Assan R *Nouv Presse Med 5: 261-3, 31 Jan 76 (Fre)* DL/76AUG298
ACIDOSIS (chemically induced); ADULT; CASE REPORT; DIABETES MELLITUS (drug therapy); HUMAN; LACTATES (blood); MALE; METFORMIN (adverse effects, therapeutic use).

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SELECTIVE INHIBITION OF THE FACILITATED MODE OF SUGAR UPTAKE BY CYTOCHALASIN B IN CULTURED CHICK FIBROBLASTS. Dolberg DS, Bassham JA, Bissell MJ *Exp Cell Res 96: 129-37, Nov 75 (Eng)* *DL/76AUG498

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CORONARY HEART DISEASE AND ITS RISK FACTORS IN A GROUP OF 5,000 MIDDLE AGED MEN IN URBAN ENVIRONMENT. Steinbach M, Constantineanu M, Harnagea P, Theodorini S, Georgescu M, Georgescu A, Manicatide MA, Voiosu R, Cucu F, Suciu A, Chirulescu Z, Bitta R, Enculescu A, Oancea D, Popescu S, Schioiu L, Vasiliu F *Rev Roum Med [Med Intern] 14: 3-10, Jan-Mar 76 (Eng)* DL/76AUG336

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THE EFFECTS OF DEXAMETHASONE AND STARVATION ON BODY COMPOSITION AND REGIONAL ADIPOSE TISSUE CELLULARITY IN THE RAT. Krotkiewski M, Bjorntorp P *Acta Endocrinol (Kbh) 80: 667-75, Dec 75 (Eng)* *DL/76AUG871

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[THE XYY SYNDROME (BRIEF CLINICO-MORPHOLOGIC CHARACTERISTICS)] Marinina GP, Blagoveshchenskaia TA, Oleinikov NI *Zh Nevropatol Psikhiatr 76: 413-6, 1976 (Rus)* DL/76AUG394

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[STUDY OF THE METABOLIC EFFECT OF MISCLERON (CLOFIBRATE) IN ANIMAL EXPERIMENTS] Kramer M, Bedo M, Blaskovits A, Gefferth G, Tarjan R *Orv Hetil 116: 2774-8, 23 Nov 75 (Hun)* *DL/76AUG579

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Brierley GP

Kieser H *Z Klin Chem Klin Biochem 13: 401-5, Sep 75 (Ger)* *DL/76AUG595
ALANINE AMINOTRANSFERASE (blood); ALKALINE PHOSPHATASE (blood); ANIMAL EXPERIMENTS; BILIRUBIN (blood); BLOOD CHEMICAL ANALYSIS; BLOOD PROTEINS (analysis); BLOOD SUGAR (analysis); DIET; ENGLISH ABSTRACT; FASTING; FEMALE; LEUCINE AMINOPEPTIDASE (blood); LIPIDS (blood); MALE; RATS.

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PHOSPHATE AND SUBSTRATE TRANSPORT BY ISOLATED HEART MITOCHONDRIA. Brierley GP, Scott KM, Jurkowitz M, Merola AJ *Recent Adv Stud Cardiac Struct Metab 4: 245-52, 1974 (Eng)* *DL/76AUG820
ANIMAL; BIOLOGICAL TRANSPORT (drug effects); CARRIER PROTEINS (metabolism); CATTLE; COMPARATIVE STUDY; MALATES (metabolism); MALONATES (pharmacodynamics); MITOCHONDRIA, LIVER (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MITOCHONDRIAL SWELLING; MODELS, BIOLOGICAL; MYOCARDIUM (ultrastructure); PHILIPPINES; PHOSPHATES (metabolism); RATS; SUCCINATES (metabolism); TEMPERATURE.

Brinn JE Jr

ISLET HISTOPHYSIOLOGY: EVOLUTIONARY CORRELATIONS. Epple A, Brinn JE Jr *Gen Comp Endocrinol 27: 320-49, Nov 75 (Eng)* DL/76AUG102

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[ABSENCE OF SOMATOSTATIN EFFECT ON NEUROHYPOPHYSEAL FUNCTION IN MAN] Legros JJ, Brison J, Franchimont P *C R Soc Biol (Paris) 168: 1442-5, 1974 (Fre)* *DL/76AUG647

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LIVER PLASMA MEMBRANES FROM ESSENTIAL FATTY ACID-DEFICIENT RATS. ISOLATION, FATTY ACID COMPOSITION, AND ACTIVITIES OF 5-NUCLEOTIDASE, ATPASE AND ADENYLATE CYCLASE. Brivio-Haugland RP, Louis SL, Musch K, Waldeck N, Williams MA *Biochim Biophys Acta 433: 150-63, 16 Apr 76 (Eng)* DL/76AUG3
ADENOSINE TRIPHOSPHATASE (metabolism); ADENYL CYCLASE (metabolism); ALKALINE PHOSPHATASE (metabolism); ANIMAL EXPERIMENTS (analysis); CELL MEMBRANE (drug effects, metabolism); FATTY ACIDS (metabolism); FATTY ACIDS, ESSENTIAL (deficiency); FLUORIDES (pharmacodynamics); GLUCAGON (pharmacodynamics); GLUCOSEPHOSPHATASE (metabolism); KINETICS; LIPIDS (metabolism); LIVER (metabolism); MALE; NUCLEOTIDASES (metabolism); PHOSPHOLIPIDS (metabolism); RATS; TEMPERATURE; THERMODYNAMICS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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STUDIES OF GLUCOSE PRODUCTION IN SHEEP USING (6-3H)GLUCOSE AND (U-14C)GLUCOSE. Brockman RP, Bergman EN, Pollak WL, Brondum J *Can J Physiol Pharmacol 53: 1186-9, Dec 75 (Eng)* DL/76AUG24
ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); DEXAMETHASONE (pharmacodynamics); FEMALE; GLUCAGON (pharmacodynamics); GLUCOSE (metabolism); INSULIN (pharmacodynamics); SHEEP; STARVATION (metabolism); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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CARDIAC GLYCOSIDES: TEMPORAL RELATIONSHIP BETWEEN THE INOTROPIC ACTION AND BINDING TO AND DISSOCIATION FROM NA&-K&-ACTIVATED ATPASE IN VITRO. Akera T, Baskin SI, Tobin T, Brody TM *Recent Adv Stud Cardiac Struct Metab 4: 149-54, 1974 (Eng)* *DL/76AUG818

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STUDIES OF GLUCOSE PRODUCTION IN SHEEP USING (6-3H)GLUCOSE AND (U-14C)GLUCOSE. Brockman RP, Bergman EN, Pollak WL, Brondum J *Can J Physiol Pharmacol 53: 1186-9, Dec 75 (Eng)* DL/76AUG24

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CHANGE IN MYOCARDIAL ADENOSINE 3, 5 CYCLIC MONOPHOSPHATE DURING THE CONTRACTION CYCLE. Brooker G *Recent Adv Stud Cardiac Struct Metab 3: 207-12, 1973 (Eng)* *DL/76AUG790
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL; FROGS; IN VITRO; MYOCARDIAL CONTRACTION; MYOCARDIUM (metabolism).

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THE USE OF EXPANDED MICROPOROUS POLYTETRAFLUOROETHYLENE FOR LIMB SALVAGE: A PRELIMINARY REPORT. Campbell CD, Brooks DH, Webster MW, Bahnson HT *Surgery 79: 485-91, May 76 (Eng)* DL/76AUG347

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HORMONAL CONTROL OF GLUCOSE PRODUCTION BY AMPHIUMA MEANS LIVER IN ORGAN CULTURE. Brown D, Fleming N, Balls M *Gen Comp Endocrinol 27: 380-8, Nov 75 (Eng)* DL/76AUG103
ALANINE AMINOTRANSFERASE (metabolism); ALANINE (pharmacodynamics); AMPHIBIA (metabolism); ANIMAL EXPERIMENTS (analysis); ASPARTATE AMINOTRANSFERASE (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG); EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); GLUCONEOGENESIS (drug effects); GLUCOSE (biosynthesis); GLYCOGEN (metabolism); HEXOSEDIPHOSPHATASE (metabolism); INSULIN (pharmacodynamics); LIVER (enzymology, metabolism); ORGAN CULTURE; PYRUVATES (pharmacodynamics).

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EFFECTS OF DEXTROTHYROXINE ON HYPERLIPIDEMIA AND EXPERIMENTAL ATHEROSCLEROSIS IN BEAGLE DOGS. Nandan R, Fisher JD, Towery EP, Brown DR, Ganote E, Jennings RB *Atherosclerosis 22: 299-311, Sep-Oct 75 (Eng)* *DL/76AUG924

Brown GM

EFFECT OF CLONIDINE ON GROWTH HORMONE, PROLACTIN, LUTEINIZING HORMONE, FOLLICLE-STIMULATING HORMONE, AND THYROID-STIMULATING HORMONE IN THE SERUM OF NORMAL MEN. Lal S, Tolis G, Martin SB, Brown GM, Guyda H *J Clin Endocrinol Metab 41: 827-32, Nov 75 (Eng)* *DL/76AUG718

Brown JC

THE EFFECT OF SOMATOSTATIN ON RELEASE AND INSULINOTROPIC ACTION OF GASTRIC INHIBITORY POLYPEPTIDE. Pederson RA, Dryburgh JR, Brown JC *Can J Physiol Pharmacol 53: 1200-5, Dec 75 (Eng)* DL/76AUG25

Brown M

EFFECTS OF NEUROTENSIN AND SUBSTANCE P ON PLASMA INSULIN, GLUCAGON AND GLUCOSE LEVELS. Brown M, Vale W *Endocrinology 98: 819-22, Mar 76 (Eng)* DL/76AUG73
ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); GLUCAGON (blood); GLUCOSE (metabolism); HOMEOSTASIS; HYPOTHALAMUS; INSULIN (blood); KININS (pharmacodynamics); MALE; RATS; SUBSTANCE P (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; IN VITRO; MALE; MORPHINE (pharmacodynamics); PENTOBARBITAL (pharmacodynamics); PITUITARY GLAND, ANTERIOR (secretion, drug effects); PROSTAGLANDINS E (pharmacodynamics); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (secretion, blood); THYROTROPIN RELEASING HORMONE (pharmacodynamics, analogs & derivatives); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Brozek I

[WORKING DIABETICS AND THEIR ACTIVITY IN THE THERAPEUTIC PROCESS (AUTHORS TRANSL)] Dub O, Brozek I, Nykodym P *Cas Lek Cesk 115: 330-4, 19 Mar 76 (Cze)* DL/76AUG27

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THE EFFECTS OF FEEDING STARCH, SUCROSE, GLUCOSE OR FRUCTOSE TO RATS DURING PREGNANCY AND EARLY LACTATION. Bourne AR, Richardson DP, Bruckdorfer KR, Yudkin J *Proc Nutr Soc 34: 80a-81a, Sep 75 (Eng)* *DL/76AUG772

THE EFFECT OF DIETARY SUCROSE AND DIFFERENT DIETARY FATS ON HYPERLIPIDAEMIA AND ATHEROSCLEROSIS IN WHITE LEGHORN COCKERELS (GALLUS DOMESTICUS). Worcester NA, Bruckdorfer KR, Yudkin J *Proc Nutr Soc 34: 82a-83a, Sep 75 (Eng)* *DL/76AUG773

Bruckner-Kardoss E

GLUCOSE TOLERANCE, INSULIN AND CATECHOLAMINE LEVELS IN GERMFREE RATS. Sewell DL, Bruckner-Kardoss E, Lorenz LM, Wostmann BS *Proc Soc Exp Biol Med 152: 16-9, May 76 (Eng)* DL/76AUG322

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[A GLUCOSE DEHYDROGENASE FOR THE DETERMINATION OF GLUCOSE CONCENTRATIONS IN BODY FLUIDS (AUTHORS TRANSL)] Banauch D, Brummer W, Ebeling W, Metz H, Rindfrey H, Lang H, Leybold K, Rick W, Staudinger HJ *Z Klin Chem Klin Biochem 13: 101-7, Mar 75 (Ger)* *DL/76AUG865

Brundenell M

DIABETIC PREGNANCY. Brundenell M *Nurs Mirror 142: 60-2, 8 Apr 76 (Eng)* DL/76AUG300
FEMALE; HUMAN; INFANT, NEWBORN; PREGNANCY IN DIABETES; PREGNANCY.

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LETTER: MEASUREMENT OF PLASMA-GLUCOSE LEVELS IN THE SIDE-ROOM. Brunton WA, Percy-Robb IW *Lancet 2: 1153, 6 Dec 75 (Eng)* *DL/76AUG568
BLOOD SUGAR (analysis); DIAGNOSTIC ERRORS; FLUORIDES (diagnostic use, pharmacodynamics); HUMAN; METHODS.

Brunzell JD

RELATIONSHIPS BETWEEN FASTING PLASMA GLUCOSE LEVELS AND INSULIN SECRETION DURING INTRAVENOUS GLUCOSE TOLERANCE TESTS. Brunzell JD,

Robertson RP, Lerner RL, Hazzard WR, Ensinck JW, Bierman EL, Porte D Jr *J Clin Endocrinol Metab 42: 222-9, Feb 76 (Eng)* DL/76AUG141
BLOOD SUGAR (metabolism); FASTING; GLUCOSE TOLERANCE TEST; HUMAN; HYPERGLYCEMIA (physiopathology); INJECTIONS, INTRAVENOUS; INSULIN (secretion); PREDIABETIC STATE (physiopathology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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POSTSYNTHETIC STABILIZED MODIFICATION OF ADENYLATE CYCLASE BY METABOLITES. Brydon-Golz S, Bennun A *Biochem Soc Trans 3: 721-4, 1975 (Eng)* *DL/76AUG505
ADENOSINE TRIPHOSPHATE (pharmacodynamics); ADENYL CYCLASE (metabolism); ANIMAL EXPERIMENTS; CEREBRAL CORTEX (enzymology, drug effects); DRUG STABILITY; KINETICS; MAGNESIUM (pharmacodynamics); MALE; NOREPINEPHRINE (pharmacodynamics); RATS.

Bryk E

[SCINTILLATIO ALBESCENS, DIABETES AND ATHEROMATOSIS] Bryk E *Klin Oczna 46: 427-30, 1976 (Pol)* DL/76AUG215
AGED; ARTERIOSCLEROSIS (blood); ATHEROMA (blood); BLOOD SUGAR (analysis); CHOLESTEROL (blood); DIABETES MELLITUS (blood); ENGLISH ABSTRACT; EYE DISEASES (blood); HUMAN; MIDDLE AGE; SYNDROME; VITREOUS BODY.

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TRIGLYCERIDE METABOLISM IN ACUTE STARVATION: THE ROLE OF SECRETIN AND GLUCAGON. Stout RW, Henry RW, Buchanan KD *Eur J Clin Invest 6: 179-85, 31 Mar 76 (Eng)* DL/76AUG87

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CONCENTRATION AND TRANSPORT OF DIFFERENT SUGARS IN THE LYMPH OF THE THORACIC DUCT AND IN BLOOD OF THE PORTAL VEIN IN DOGS AFTER ENTERAL AND PARENTERAL ADMINISTRATION. Seifert J, Prols H, Messmer K, Bucklein R, Lob G, Mehnert H, Brendel W *Digestion 12: 221-31, 1975 (Eng)* *DL/76AUG688

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[CHANGES IN GLUCOSE-6-PHOSPHATE DEHYDROGENASE ACTIVITY IN THE HUMAN PLACENTA DURING PREGNANCY] Csaba I, Nagy P, Szabo I, Bucs G, Varga K *Zentralbl Gynaekol 97: 714-7, 1975 (Ger)* *DL/76AUG866

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14C-GLUCOSE AND 35S-METABOLISM OF PIG EPIPHYSIAL CARTILAGE AND ITS VARIATIONS AFTER OSTEOTOMY. Beckmann J, Rodegerdts U, Buddecke E *J Bone Joint Surg [Br] 57: 506-10, Nov 75 (Eng)* *DL/76AUG535

PURIFICATION AND PROPERTIES OF UDP-GLUCOSE GALACTOSYLHYDROXYLYSINE COLLAGEN GLUCOSYLTRANSFERASE (EC 2.4.1.) FROM BOVINE ARTERIAL TISSUE. Henkel W, Buddecke E *Hoppe Seylers Z Physiol Chem 356: 921-8, Jun 75 (Eng)* *DL/76AUG695

METABOLISM OF SULFATED GLYCOSAMINOGLYCANS IN CULTIVATED BOVINE ARTERIAL CELLS. II. QUANTITATIVE STUDIES ON THE UPTAKE OF 35SO4-LABELED PROTEOGLYCANS. Kresse H, Tekolf W, von Figura K, Buddecke E *Hoppe Seylers Z Physiol Chem 356: 943-52, Jun 75 (Eng)* *DL/76AUG696

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[POSTPRANDIAL LEVELS OF BLOOD SUGAR, CHOLESTEROL AND TOTAL LIPIDS IN A GROUP OF NORMAL STUDENTS] Sneer A, Buiuc C, Dughir E, Dimitriu M *Rev Med Chir Soc Med Nat Iasi 79: 555-60, Oct-Dec 75 (Rum)* DL/76AUG333

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[EARLY ADAPTATION OF PREMATURE INFANTS (HEMATOLOGICAL AND BIOCHEMICAL ASPECTS)] Rusu O, Bulat E, Iorgulescu M, Deciu I., Baltac C, Kloss D *Rev Pediatr Obstet Ginecol [Pediatr] 24: 37-47, Jan-Mar 75 (Rum)* *DL/76AUG840

Bunger B

[GLUCOSE CONCENTRATION IN BLOOD DURING EXERTION. 5. USE OF THE TOTAL DISTRIBUTION OF BLOOD GLUCOSE VALUES DURING PHYSICAL EXERCISE OR THE ESTIMATION OF RESPONSE TO EXERTION IN VARIOUS BREEDS OF SWINE] Bunger U, Steinhardt M, Riehm G, Gohler H, Bunger B, Lyhs I. *Arch Exp Veterinaermed 29: 83-97, 1975 (Ger)* *DL/76AUG617

[EVALUATION OF BLOOD GLUCOSE CONCENTRATION DURING EXERTION. 6. EFFECT OF ANEMIA ON THE GLUCOSE REGULATION CAPACITY OF DOMESTIC SWINE IN STANDARDIZED RUNNING EXERCISE] Bunger U, Steinhardt M, Riehm G, Bunger B, Lyhs I. *Arch Exp Veterinaermed 29: 631-40, 1975 (Ger)* *DL/76AUG906

Bunger U

[GLUCOSE CONCENTRATION IN BLOOD DURING EXERTION. 5. USE OF THE TOTAL DISTRIBUTION OF BLOOD GLUCOSE VALUES DURING PHYSICAL EXERCISE OR THE ESTIMATION OF RESPONSE TO EXERTION IN VARIOUS BREEDS OF SWINE] Bunger U, Steinhardt M, Riehm G, Gohler H, Bunger B, Lyhs I. *Arch Exp Veterinaermed 29: 83-97, 1975 (Ger)* *DL/76AUG617
ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); COMPARATIVE STUDY; ENGLISH ABSTRACT; EXERTION; SEASONS; SPECIES SPECIFICITY; SWINE (blood); TIME FACTORS.

[EVALUATION OF THE ABILITY TO REGULATE BLOOD VOLUME UNDER STANDARDIZED MOTORIC STRESS] Bunger U, Steinhardt M, Lyhs I. *Arch Exp Veterinaermed 29: 265-79, 1975 (Ger)* *DL/76AUG618
ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); BLOOD VOLUME; ENGLISH ABSTRACT; EXERTION; FEMALE; MALE; PLASMA VOLUME; SWINE (physiology, blood).

[EFFECT OF ANEMIA ON VARIOUS REACTIONS OF THE DOMESTIC SWINE DUE TO PHYSICAL EXERTION. 3. CHANGES IN PLASMA GLUCOSE AND LACTIC ACID CONCENTRATIONS] Bunger U, Steinhardt M, Riehm G, Lyhs I. *Arch Exp Veterinaermed 29: 581-93, 1975 (Ger)* *DL/76AUG905
ANEMIA (veterinary, blood); ANIMAL; BLOOD SUGAR (metabolism); ENGLISH ABSTRACT; EXERTION; LACTATES (blood); SWINE DISEASES (blood); SWINE.

[EVALUATION OF BLOOD GLUCOSE CONCENTRATION DURING EXERTION. 6. EFFECT OF ANEMIA ON THE GLUCOSE REGULATION CAPACITY OF DOMESTIC SWINE IN STANDARDIZED RUNNING EXERCISE] Bunger U, Steinhardt M, Riehm G, Bunger B, Lyhs I. *Arch Exp Veterinaermed 29: 631-40, 1975 (Ger)* *DL/76AUG906
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AGED; ALCOHOLIC INTOXICATION (therapy); CASE REPORT; DIABETIC COMA (therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; INTENSIVE CARE UNITS; LUNG DISEASES (therapy); MALE; MYOCARDIAL INFARCT (therapy); RETROSPECTIVE STUDIES; SEX FACTORS; SWEDEN).

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ANALYSIS OF VARIANCE; BLOOD SUGAR (analysis); CHEMISTRY, CLINICAL; COMPARATIVE STUDY; EQUIPMENT AND SUPPLIES; GLUCOSE (analysis); MICROCHEMISTRY (methods); MODELS, CHEMICAL; SILICONES; SOLUTIONS; SURFACE PROPERTIES; TEMPERATURE; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED

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AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS (analysis); CARBON DIOXIDE (metabolism); DIABETES MELLITUS (metabolism); DIAPHRAGM (metabolism); IN VITRO; INSULIN (deficiency, pharmacodynamics); LEUCINE (metabolism); MALE; METHYLENE BLUE (pharmacodynamics); MUSCLES (metabolism); OXIDATION-REDUCTION; PYRUVATES (pharmacodynamics); RATS; TISSUE CULTURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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[CLINICAL ASPECTS OF DIABETES MELLITUS] Butturini U *G Clin Med 55: 337-53, May 74 (Ita)* DL/76AUG97
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AN ATTEMPT AT BLOCKING THE CARDIOVASCULAR AND METABOLIC SIDE-EFFECTS OF BETA-MIMETIC DRUGS DURING LABOR. Esteban-Altirriba J, Rene AM, Duran P, Cabero L, Giralt E, Carreras M, Garcia-Cambronero MT *J Perinat Med 2: 243-53, 1974 (Eng)* *DL/76AUG724

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ADOLESCENCE; AGE FACTORS; ARGININE (pharmacodynamics); BLOOD SUGAR (metabolism); CHILD; CORTICOTROPIN (pharmacodynamics); EXERTION; FEMALE; HUMAN; HYDROCORTISONE (blood); MALE; PITUITARY GLAND (drug effects); PUBERTY; SOMATOTROPIN (blood); STIMULATION, CHEMICAL.

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[EFFECTS OF GLUCAGON ON THE GASTRIC MICROCIRCULATION OF THE RAT] Cagol PP, Dodi G, Zanon GF *Chir Patol Sper 23: 111-4, Jun 75 (Ita)* DL/76AUG61
ANIMAL EXPERIMENTS (analysis); ENGLISH ABSTRACT; GLUCAGON (pharmacodynamics); MICROCIRCULATION (drug effects); RATS; STOMACH (blood supply).

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ADOLESCENCE; ADULT; AGED; DIABETES MELLITUS (complications, occurrence); FEMALE; HERPES ZOSTER (complications); HUMAN; ITALY); MALE; MIDDLE AGE.

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STIMULATION OF 45CA EFFLUX FROM SMOOTH MUSCLE CELLS BY METABOLIC INHIBITION AND HIGH K DEPOLARIZATION. Van Breemen C, Wuytack F, Casteels R, Martinelli B, Campailla E, Ferrari G *Pfluegers Arch 359: 183-96, 9 Sep 75 (Eng)* *DL/76AUG758

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THE USE OF EXPANDED MICROPOROUS POLYTETRAFLUOROETHYLENE FOR LIMB SALVAGE: A PRELIMINARY REPORT. Campbell CD, Brooks DH, Webster MW, Bahnson HT *Surgery 79: 485-91, May 76 (Eng)* DL/76AUG347
AGED; ANGIOGRAPHY; ATHEROSCLEROSIS (complications); BLOOD VESSEL PROSTHESIS (standards); CORONARY DISEASE (complications); DIABETES MELLITUS (complications); EVALUATION STUDIES; FOLLOW-UP STUDIES; HUMAN; LEG (blood supply); MIDDLE AGE; POLYTETRAFLUOROETHYLENE.

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ADULT; AGED; BLOOD PRESSURE; CLINICAL RESEARCH; DIABETIC NEUROPATHIES (drug therapy); DOSE-RESPONSE RELATIONSHIP, DRUG); FEMALE; FLUDROCORTISONE (therapeutic use); HEART FAILURE, CONGESTIVE (complications); HUMAN; HYPOTENSION, ORTHOSTATIC (complications, drug therapy); MALE; MIDDLE AGE; NEPHROTIC SYNDROME (complications).

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EXPERIMENTAL ATHEROSCLEROSIS IN THE RAT: BIOCHEMICAL EVALUATION. Testa R, Canestrini C, Oldani C *J Pharm Pharmacol 27: 699-700, Sep 75 (Eng)* *DL/76AUG725

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ANIMAL EXPERIMENTS; CALCIUM (metabolism); IONOPHORES (pharmacodynamics); KINETICS; MITOCHONDRIA, MUSCLE (metabolism, drug effects, enzymology); MODELS, BIOLOGICAL; MYOCARDIAL CONTRACTION; MYOCARDIUM (metabolism, ultrastructure); RATS; RUTHENIUM RED (pharmacodynamics); SODIUM (pharmacodynamics); TROPONIN (metabolism); UNCOUPLING AGENTS (pharmacodynamics).

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[INFLUENCE OF CALCITONIN ON INSULIN SECRETION AFTER INTRAVENOUS ADMINISTRATION OF GLUCOSE] Passeri M, Carapezzi C, Ceccato S, Cucinotta D, Palummeri E *G Clin Med 55: 362-70, May 74 (Ita)* DL/76AUG98

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[INFLUENCE OF HYPOPHOSPHATEMIA ON ERYTHROCYTE METABOLISM IN DIABETIC KETO-ACIDOSIS] Lyonnais J, Card

RT, Brain MC *Union Med Can 104: 560-4, Apr 75 (Fre)* DL/76AUG354

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[BEHAVIOR OF BLOOD SOMATOTROPIN AFTER INTRAMUSCULAR ADMINISTRATION OF GLUCAGON IN PREPUBERAL OBESE SUBJECTS] Lanzara P, Marozzi P, Carmina E, Janni A *Pediatria (Napoli) 83: 81-9, 31 Mar 75 (Ita)* DL/76AUG291

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LOWERING OF PLASMA CHOLESTEROL LEVELS IN FREE-LIVING ADOLESCENT MALES; USE OF NATURAL AND SYNTHETIC POLYUNSATURATED FOODS TO PROVIDE BALANCED FAT DIETS. Stein EA, Mendelsohn D, Fleming M, Barnard GD, Carter KJ, du Toit PS, Hansen JD, Bersohn I *Am J Clin Nutr 28: 1204-16, Nov 75 (Eng)* *DL/76AUG879

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ACROMEGALY (blood); ADULT; BLOOD SUGAR (metabolism); ERGOLINES (therapeutic use); ERGOT ALKALOIDS (diagnostic use, therapeutic use); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; MALE; MIDDLE AGE; SOMATOTROPIN (blood); 2-BROMOERGOCRYPTINE (diagnostic use, therapeutic use).

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ADENOSINE TRIPHOSPHATE (antagonists & inhibitors); ANIMAL; BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (metabolism); CELL MEMBRANE PERMEABILITY (drug effects); CELL MEMBRANE (metabolism); COLON (metabolism); DINITROPHENOLS (pharmacodynamics); EXTRACELLULAR SPACE (metabolism); EGTA; GUINEA PIGS; IODOACETATES (pharmacodynamics); LITHIUM; MALE; MUSCLE, SMOOTH (metabolism); SODIUM (metabolism); TEMPERATURE.

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[CLINICAL AND LABORATORY PROBLEMS IN RADIOIMMUNOLOGIC DETERMINATION] Castelli A *Quad Sclavo Diagn 11: 179-82, Jun 75 (Ita)* DL/76AUG326

BINDING SITES, ANTIBODY; CORTICOTROPIN (blood); HUMAN; HYPERTHYROIDISM (blood); INSULIN (blood); RADIOIMMUNOASSAY; THYROXINE (blood); THYROXINE-BINDING PROTEIN.

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ADOLESCENCE; ADULT; AGE FACTORS; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (immunology); HISTOCOMPATIBILITY ANTIGENS; HL-A; HUMAN; INFANT; INFANT, NEWBORN.

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ANIMAL EXPERIMENTS; ANOXIA (pathology); CATS; DOGS; IN VITRO; MANNITOL (pharmacodynamics); MITOCHONDRIA, MUSCLE (pathology, drug effects); MITOCHONDRIAL SWELLING (drug effects); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (pathology, ultrastructure); PAPILLARY MUSCLES.

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ADULT; AGED; ANTIGENS; ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYPERTHYROIDISM (blood, diagnosis, physiopathology); INSULIN (blood, secretion); MALE; MIDDLE AGE; SOMATOTROPIN (blood, secretion).

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EFFECT OF CLOFIBRATE ON PLASMA PROTEINS INCLUDING COMPONENTS OF THE HEMOSTATIC MECHANISM. Cederblad G, Korsan-Bengtsen K *Clin Chim Acta 66: 9-17, 2 Jan 76 (Eng)* DL/76AUG41

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[LETTER: HYPOGLYCEMIA DURING BETA BLOCKING TREATMENT] Certin M, Wechsler B, Bletry O, Godeau P *Nouv Presse Med 5: 862, 27 Mar 76 (Fre)* DL/76AUG296

ANGINA PECTORIS (drug therapy); CASE REPORT; DIABETES MELLITUS (complications); FASTING (adverse effects); HUMAN; HYPOGLYCEMIA (chemically induced); INSULIN (secretion); MALE; MIDDLE AGE; PINDOLOL (adverse effects, therapeutic use); SECRETORY RATE (drug effects).

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A-23187 (pharmacodynamics); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (blood); ANIMAL; BLOOD PLATELETS (enzymology, drug effects, metabolism); CALCIUM (pharmacodynamics); CYANIDES (pharmacodynamics); DIBUTYRYL CYCLIC AMP (pharmacodynamics); ENZYME ACTIVATION (drug effects); GLYCOGEN PHOSPHORYLASE (blood); GLYCOGEN (blood); GLYCOLYSIS (drug effects); HUMAN; MAGNESIUM (pharmacodynamics); RATS; SPECTROMETRY, FLUORESCENCE; THEOPHYLLINE (pharmacodynamics); THROMBIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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CASE REPORT; HEPATOMA (metabolism, pathology); HISTOCYTOCHEMISTRY; HUMAN; HYPOGLYCEMIA (complications, metabolism); LIPIDS (metabolism); LIVER NEOPLASMS (metabolism, pathology); LIVER (metabolism); LIVER (pathology, ultrastructure); MALE; MIDDLE AGE; VACUOLES (metabolism).

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BACTERIORHODOPSIN; ELECTRON TRANSPORT; ENERGY TRANSFER; MEMBRANE POTENTIALS; PHOTOSYNTHESIS.

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ACHOLEPLASMA LAIDLAWII (ultrastructure); ANIMAL; CATIONS, DIVALENT; CELL MEMBRANE (ultrastructure, analysis); CRYSTALLIZATION; ERYTHROCYTES (ultrastructure); ESCHERICHIA COLI (ultrastructure); LIPIDS (analysis); MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; MOLECULAR CONFORMATION; NUCLEAR MAGNETIC RESONANCE; PEPTIDES; PHOSPHOLIPIDS (analysis); PRESSURE; PROTEINS; REVIEW; SACCHAROMYCES CEREVISIAE (ultrastructure); SOLUBILITY; STRUCTURE-ACTIVITY RELATIONSHIP; TEMPERATURE.

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PEDIATRICS: OFFICE MANAGEMENT OF DIABETES MELLITUS IN CHILDREN. Chase HP *Postgrad Med 59: 243-53, May 76 (Eng)* DL/76AUG313
ACIDOSIS, DIABETIC (etiology); AMBULATORY CARE; CHILD; DIABETES MELLITUS, JUVENILE (complications, drug therapy, therapy); DIABETIC DIET; EMOTIONS; GLYCOSURIA; HEALTH EDUCATION; HUMAN; HYPOGLYCEMIA (etiology); INSULIN (administration & dosage, therapeutic use); KETO ACIDS; SWINE.

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CELL-FREE SYSTEM; CHLOROPLASTS (metabolism, ultrastructure); LIGHT; MEMBRANE POTENTIALS (drug effects); MEMBRANES (physiology); PHYCOCYANIN (pharmacodynamics); PHYCOERYTHRIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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ANIMAL; BINDING SITES; CATTLE; CELL MEMBRANE (metabolism); EDTA (pharmacodynamics); FSH (metabolism); HUMAN; KINETICS; MALE; OSMOLAR CONCENTRATION; PHILIPPINES; PROTEIN BINDING; PROTEINS (metabolism); RECEPTORS, HORMONE; SUBCELLULAR FRACTIONS (metabolism); TEMPERATURE; TESTIS (metabolism).

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ADIPOSE TISSUE; ADULT; AGING; ANTHROPOMETRY (methods); BODY WEIGHT; FEMALE; HUMAN; MALE; MATHEMATICS; MIDDLE AGE; POTASSIUM (analysis); SKINFOLD THICKNESS; TAIWAN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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CORONARY HEART DISEASE AND ITS RISK FACTORS IN A GROUP OF 5,000 MIDDLE AGED MEN IN URBAN ENVIRONMENT. Steinbach M, Constantineanu M, Harnagea P, Theodorini S, Georgescu M, Georgescu A, Manicatide MA, Voiosu R, Cucu F, Suciu A,

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ADULT; ARGININE (pharmacodynamics); DEPRESSION, CHEMICAL; DOSE-RESPONSE RELATIONSHIP, DRUG); FEMALE; GASTRIC JUICE (secretion); GASTRIC MUCOSA (drug effects); GLUCAGON (pharmacodynamics, physiology, secretion); HUMAN; KINETICS; MALE; MIDDLE AGE; PANCREAS (secretion); PENTAGASTRIN (pharmacodynamics).

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ABNORMALITIES (etiology, occurrence); CENTRAL NERVOUS SYSTEM (abnormalities); FEMALE; GASTROINTESTINAL SYSTEM (abnormalities); HEART DEFECTS, CONGENITAL (occurrence); HUMAN; INFANT, NEWBORN; LUNG (abnormalities); MUSCULOSKELETAL SYSTEM (abnormalities); PREGNANCY IN DIABETES (complications); PREGNANCY; RACIAL STOCKS; REVIEW; RISK; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES); UROGENITAL SYSTEM (abnormalities).

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ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; CATTLE; CILIARY BODY (enzymology); CORNEA (enzymology); ELECTROPHORESIS, STARCH GEL; ENZYME ACTIVATION; EPITHELIUM (enzymology); EYE (enzymology); GLUCOSE (metabolism); HEXOKINASE (metabolism); LENS, CRYSTALLINE (enzymology); RETINA (enzymology); SCLERA (enzymology); SOLUBILITY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VITREOUS BODY (enzymology).

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DIABETIC ANGIOPATHIES (diagnosis, drug therapy, physiopathology); GLUCOSAMINE (therapeutic use); HUMAN; INSULIN (therapeutic use); POLYSACCHARIDES (therapeutic use).

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ADULT; AGE FACTORS; AGED; BLOOD PRESSURE; CHILD; DIABETIC RETINOPATHY (etiology, physiopathology); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERTENSION (complications); MALE; MIDDLE AGE; NUTRITION DISORDERS (complications); TIME FACTORS.

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ADULT; CLINICAL RESEARCH; ESOPHAGEAL VARICES (radiography); GLUCAGON (diagnostic use); HUMAN; MALE; MIDDLE AGE; PLACEBOS; POSTURE; PROPANTHELINE BROMIDE (diagnostic use); RESPIRATION.

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AUTOANALYSIS (methods); BLOOD SUGAR (analysis, metabolism); DIABETES MELLITUS (metabolism); ENGLISH ABSTRACT; HUMAN; HYPERTHYROIDISM (metabolism); INSULIN (blood).

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CRANIOPHARYNGIOMA: THE ROLE OF INSULIN IN PROMOTING POSTOPERATIVE GROWTH. Costin G, Kogut MD, Phillips LS, Daughaday WH *J Clin Endocrinol Metab 42: 370-9, Feb 76 (Eng)* DL/76AUG142

ANTIGENS; BLOOD SUGAR; CARBOHYDRATES (metabolism); CHILD; CHILD, PRESCHOOL; CRANIOPHARYNGIOMA (physiopathology, surgery); ENDOCRINE GLANDS (physiopathology); FEMALE; GLUCOSE (pharmacodynamics); GROWTH; HUMAN; INJECTIONS, INTRAVENOUS; INSULIN (immunology, physiology); MALE; OBESITY (physiopathology); PROLACTIN (blood); SOMATOMEDIN (blood); SOMATOTROPIN (deficiency); TOLBUTAMIDE (administration & dosage); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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[ADENYLATE CYCLASE/LIPASE. HORMONE RECEPTOR INDUCTION] Cresteil T, Counis R, Raulin J *Biochimie 57: 1371-6, Nov-Dec 75 (Fre)* DL/76AUG4

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Crass MF 3d

LIPID AND GLYCOGEN METABOLISM IN THE HYPOXIC HEART: EFFECTS OF EPINEPHRINE. Crass MF 3d, Pieper GM *Am J Physiol 229: 885-9, Oct 75 (Eng)* *DL/76AUG883
ANIMAL; ANOXIA (metabolism); CARBON DIOXIDE (biosynthesis); EPINEPHRINE (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE (biosynthesis); GLYCOGEN (metabolism); LIPIDS (metabolism); MALE; MYOCARDIUM (metabolism); OXIDATION-REDUCTION; PERFUSION (methods); PHOSPHOLIPIDS (metabolism); RATS; TRIGLYCERIDES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Crass MF 3rd

HEART TRIGLYCERIDE AND GLYCOGEN METABOLISM: EFFECTS OF CATECHOLAMINES, DIBUTYRYL CYCLIC AMP, THEOPHYLLINE, AND FATTY ACIDS. Crass MF 3rd *Recent Adv Stud Cardiac Struct Metab 3: 275-90, 1973 (Eng)* *DL/76AUG796
ANIMAL EXPERIMENTS; BLOOD PRESSURE (drug effects); DIBUTYRYL CYCLIC AMP (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; EPINEPHRINE (pharmacodynamics); FATTY ACIDS (metabolism); GLYCOGEN (metabolism); HEART RATE (drug effects); HEART (drug effects); MALE; MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism); PALMITATES (pharmacodynamics, metabolism); RATS; THEOPHYLLINE (pharmacodynamics); TRIGLYCERIDES (metabolism).

Crepinko I

COMPARISON BETWEEN CYTOCHEMICAL CHANGES, CONCENTRATION OF PAS-POSITIVE SUBSTANCES IN PERIPHERAL BLOOD LYMPHOCYTES AND CHANGES OF BLOOD GLUCOSE VALUES DURING THE ORAL GLUCOSE TOLERANCE TEST. Papic Z, Katona G, Crepinko I, Skrabalo Z *Acta Diabetol Lat 12: 232-8, May-Aug 75 (Eng)* DL/76AUG405

Cresteil T

[ADENYLATE CYCLASE/LIPASE. HORMONE RECEPTOR INDUCTION] Cresteil T, Counis R, Raulin J *Biochimie 57: 1371-6, Nov-Dec 75 (Fre)* DL/76AUG4
ADENYL CYCLASE (metabolism); AGE FACTORS; ANIMAL EXPERIMENTS (analysis); ANIMALS, NEWBORN; BROWN FAT (drug effects, enzymology); CORTICOTROPIN (pharmacodynamics); DNA (analysis); ENGLISH ABSTRACT; FETUS; FLUORIDES (pharmacodynamics); GESTATIONAL AGE; GLUCAGON (pharmacodynamics); GUINEA PIGS; LIPASE (metabolism); NOREPINEPHRINE (pharmacodynamics); RECEPTORS, HORMONE.

Criffo A

[INSULIN AVAILABILITY IN SOME FAMILIAL INHERITED NEUROLOGICAL SYNDROMES (AUTHORS TRANSL)] Fratino P, Kauchtschischvili G, Nappi G, Poloni M, Favino A, Criffo A *Riv Patol Nerv Ment 95: 624-31, Oct 74 (Ita)* DL/76AUG335

Crites SK

THE MEASUREMENT OF GLYCOGEN IN TISSUES BY AMYLO-ALPHA-1,4-ALPHA-1,6-GLUCOSIDASE AFTER THE DESTRUCTION OF PREEXISTING GLUCOSE. Lust WD, Passonneau JV, Crites SK *Anal Biochem 68: 328-31, Sep 75 (Eng)* *DL/76AUG884

Crone C

INDUCTION PROCESSES IN BLOOD-BRAIN TRANSFER OF KETONE BODIES DURING STARVATION. Gjedde A, Crone C *Am J Physiol 229: 1165-9, Nov 75 (Eng)* *DL/76AUG609

Csaba I

[CHANGES IN GLUCOSE-6-PHOSPHATE DEHYDROGENASE ACTIVITY IN THE HUMAN PLACENTA DURING PREGNANCY] Csaba I, Nagy P, Szabo I, Bucs G, Varga K *Zentralbl Gynaekol 97: 714-7, 1975 (Ger)* *DL/76AUG866
ENGLISH ABSTRACT; FEMALE; GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); HUMAN; PLACENTA (enzymology); PREGNANCY TRIMESTER, FIRST; PREGNANCY TRIMESTER, SECOND; PREGNANCY TRIMESTER, THIRD; PREGNANCY.

Csongrady A

[A FURTHER CASE OF MALIGNANT HYPERPYREXIA AND ITS TREATMENT WITH LIDOCAINE, METHYLPREDNISOLONE AND VERAPAMIL (IPROVERATRIL) (AUTHORS TRANSL)] Csongrady A, Bake I, Pfander C, Tarmann H, Schneider M, Buttazzoni E *Anaesthesist 25: 80-1, Feb 76 (Ger)* DL/76AUG446
ACIDOSIS (chemically induced, drug therapy); ADULT; CALCIUM (metabolism); CASE REPORT; COLD (therapeutic use); ENGLISH ABSTRACT; GLUCOSE (therapeutic use); HALOTHANE (adverse effects); HUMAN; INSULIN (therapeutic use); IPROVERATRIL (therapeutic use); LIDOCAINE (therapeutic use); MALE; MALIGNANT HYPERTHERMIA (chemically induced, drug therapy); METHYLPREDNISOLONE (therapeutic use); MUSCLE RELAXANTS, CENTRAL (adverse effects, therapeutic use); OXYGEN (therapeutic use); SUCCINYLCHOLINE (adverse effects).

Cuatrecasas P

MECHANISM OF ACTIVATION OF ADENYLATE CYCLASE BY CHOLERA TOXIN. Sahyoun N, Cuatrecasas P *Proc Natl Acad Sci USA 72: 3438-42, Sep 75 (Eng)* *DL/76AUG764

Cubela V

[CUTANEOUS CHANGES IN DIABETES MELLITUS WITH SPECIAL REFERENCE TO BULLOSIS IDIOPATHICA] Cubela V, Lusicky B, Ivankovic E *Dermatol Monatsschr 161: 217-9, Mar 75 (Ger)* DL/76AUG95
BLISTER; DIABETES MELLITUS (diagnosis); HUMAN; SKIN DISEASES (diagnosis); SKIN MANIFESTATIONS.

Cucinotta D

[INFLUENCE OF CALCITONIN ON INSULIN SECRETION AFTER INTRAVENOUS ADMINISTRATION OF GLUCOSE] Passeri M, Carapezzi C, Ceccato S, Cucinotta D, Palummeri E *G Clin Med 55: 362-70, May 74 (Ita)* DL/76AUG98

[DIGITAL AND MUSCLE BIOPSY IN THE EVALUATION OF SENILE DIABETIC MICROANGIOPATHY. NOTE I. COMPARISON OF THE 2 DIAGNOSTIC METHODS] Curri SB, Ceccato S, Cucinotta D, Carapezzi C, Palummeri E, Passeri M *G Clin Med 56: 4-38, Jan-Feb 75 (Ita)* DL/76AUG99

Cucu F

CORONARY HEART DISEASE AND ITS RISK FACTORS IN A GROUP OF 5,000 MIDDLE AGED MEN IN URBAN ENVIRONMENT. Steinbach M, Constantineanu M, Harnagea P, Theodorini S, Georgescu M, Georgescu A, Manicatide MA, Voiosu R, Cucu F, Suciu A, Chirulescu Z, Bitta R, Enculescu A, Oancea D, Popescu S, Schioiu L, Vasiliu F *Rev Roum Med [Med Intern] 14: 3-10, Jan-Mar 76 (Eng)* DL/76AUG336

Cuppoletti J

KINETIC ANALYSIS OF ACTIVE MEMBRANE TRANSPORT SYSTEMS: EQUATIONS FOR NET VELOCITY AND ISOTOPE EXCHANGE. Cuppoletti J, Segel IH *J Theor Biol 53: 125-44, Sep 75 (Eng)* *DL/76AUG564
BIOLOGICAL TRANSPORT, ACTIVE; CARRIER PROTEINS; KINETICS; LIGANDS; MODELS, BIOLOGICAL; PENICILLIUM (metabolism); PHILIPPINES; PHOSPHORUS (metabolism); SULFATES (metabolism); SULFUR ISOTOPES; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

Curri SB

[DIGITAL AND MUSCLE BIOPSY IN THE EVALUATION OF SENILE DIABETIC MICROANGIOPATHY. NOTE I. COMPARISON OF THE 2 DIAGNOSTIC METHODS] Curri SB, Ceccato S, Cucinotta D, Carapezzi C, Palummeri E, Passeri M *G Clin Med 56: 4-38, Jan-Feb 75 (Ita)* DL/76AUG99
AGED; BIOPSY (methods); BLOOD VESSELS (pathology); DIABETIC ANGIOPATHIES (diagnosis, pathology); ENGLISH ABSTRACT; FEMALE; FINGERS (blood supply); HUMAN; MALE; MICROCIRCULATION; MIDDLE AGE; MUSCLES (pathology); SKIN (pathology).

Curtis-Prior PB

EFFECTS OF O-2 AND N6-ACYL-SUBSTITUTED CYCLIC AMP ON ADIPOSE TISSUE METABOLISM IN VITRO. Curtis-Prior PB *Biochem Pharmacol 24: 1904-6, 15 Oct 75 (Eng)* *DL/76AUG920
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (analogs & derivatives, pharmacodynamics); ADIPOSE TISSUE (metabolism, drug effects); ANIMAL; DIBUTYRYL CYCLIC AMP (pharmacodynamics); GLUCOSE (metabolism); GLYCERIN (metabolism); IN VITRO; LIPIDS (biosynthesis); NOREPINEPHRINE (pharmacodynamics); RATS.

Cutilletta AF

EFFECT OF DIBUTYRYL CYCLIC AMP ON MYOCARDIAL PERFORMANCE IN VIVO. Cutilletta AF, Lin CY, Thilenius OG, Arcilla RA *Recent Adv Stud Cardiac Struct Metab 3: 251-9, 1973 (Eng)* *DL/76AUG794
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (physiology); ANIMAL EXPERIMENTS; BLOOD PRESSURE (drug effects); CARDIAC OUTPUT (drug effects); DIBUTYRYL CYCLIC AMP (pharmacodynamics); DOGS; HEART RATE (drug effects); HEART (drug effects); MYOCARDIAL CONTRACTION (drug effects); PROPRANOLOL (pharmacodynamics).

Czako L

EFFECT OF PITUITARY STALK LESION ON WATER AND CARBOHYDRATE METABOLISMS IN ALLOXAN-DIABETIC RATS. Laszlo FA, Durszt F, Varga P, Czako L *Endokrinologie 63: 294-303, 1974 (Eng)* DL/76AUG77

[COMBINED CLOFIBRATE-CHLORPROPAMIDE THERAPY IN DIABETES INSIPIDUS COMPLICATED WITH DIABETES MELLITUS] Czako L, Laszlo FA, Kahan-Laszlo I *Endokrinologie 65: 364-74, 1975 (Ger)* DL/76AUG82
CHLORPROPAMIDE (therapeutic use); CLOFIBRATE (therapeutic use); DIABETES INSIPIDUS (complications, drug therapy); DIABETES MELLITUS (complications); DIURESIS (drug effects); DRUG THERAPY, COMBINATION; ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN (administration & dosage); LIPIDS (metabolism); MALE; MIDDLE AGE.

Czarnecki CM

BLOOD GLUCOSE AND TISSUE GLYCOGEN LEVELS IN TURKEY POULTS WITH SPONTANEOUS ROUND HEART DISEASE AND FU-

Czarnowska J

RAZOLIDONE-INDUCED CARDIOMYOPATHY. Czarnecki CM, Reneau JK, Jankus EF *Avian Dis 19: 773-80, Oct-Dec 75 (Eng)* *DL/76AUG619
ANIMAL EXPERIMENTS; BLOOD SUGAR (analysis); COMPARATIVE STUDY; FURAZOLIDONE; GLYCOGEN (metabolism); HEART DISEASES (veterinary, chemically induced, metabolism); LIVER GLYCOGEN (metabolism); MALE; MUSCLES (metabolism); MYOCARDIUM (metabolism); POULTRY DISEASES (metabolism, chemically induced); TURKEYS.

Czarnowska J

[MAGNESIUM LEVELS IN SERUM, WHOLE BLOOD AND ERYTHROCYTES IN JUVENILE DIABETES] Milewicz A, Stepien-Dobrowolska M, Szklarz E, Glebowska H, Gladysz A, Czarnowska J *Wiad Lek 29: 599-602, 1 Apr 76 (Pol)* DL/76AUG373

Dabir-Vaziri N

EFFECT OF PROTEIN INTAKE AND DIALYSIS ON THE ABNORMAL GROWTH HORMONE, GLUCOSE, AND INSULIN HOMEOSTASIS IN UREMIA. Davidson MB, Fisher MB, Dabir-Vaziri N, Schaffer M *Metabolism 25: 455-64, Apr 76 (Eng)* DL/76AUG245

DAgata R

CHRONOBIOLOGICAL STUDY OF GROWTH HORMONE SECRETION IN MAN: ITS RELATION TO SLEEP-WAKE CYCLES AND TO INCREASING AGE. PP. 81-7. DAgata R, Vigneri R, Polosa P, Semenenko EI, Myshkovskii VI, I USON-Stiennon JA, Leclerq G *In0 Scheving LE, et al., ed. Chronobiology. Tokyo, Igaku Shoin, 1974. QT 167 C557 1971. (Eng)* DL/76AUG186
ADOLESCENCE; ADULT; AGED; AGING; BLOOD SUGAR; BRAIN (physiology); CHILD; CHILD, PRESCHOOL; CIRCADIAN RHYTHM; GLUCOSE; HUMAN; HYPERGLYCEMIA (chemically induced); INFANT; MALE; MIDDLE AGE; MONOGRAPH (mortality); SLEEP STAGES (physiology); SLEEP (physiology); SOMATOTROPIN (blood, secretion); WAKEFULNESS.

Dahlen G

FURTHER EVIDENCE FOR THE EXISTENCE OF GENETICALLY DETERMINED METABOLIC DIFFERENCES BETWEEN LP(A&) AND LP(A-) INDIVIDUALS. Dahlen G, Berg K *Clin Genet 9: 357-64, Mar 76 (Eng)* DL/76AUG44
ANTIGENS; BLOOD SUGAR (metabolism); CHOLESTEROL (blood); HUMAN; INSULIN (blood); LIPOPROTEINS (immunology); MALE; MIDDLE AGE; PHENOTYPE; SWEDEN); THYROID GLAND (physiology); THYROXINE (blood); TRIGLYCERIDES (blood).

LP(ALPHA) LIPOPROTEIN AND PRE-BETA1-LIPOPROTEIN IN RELATION TO LIPID LEVELS IN MALES. Dahlen G, Berg K, Ericson C, Noer G *Acta Med Scand 198: 263-7, Oct 75 (Eng)* *DL/76AUG877
ANTIGENS; CHOLESTEROL (blood); HUMAN; LIPIDS (blood); LIPOPROTEINS (immunology); LIPOPROTEINS, HDL (blood); LIPOPROTEINS, VLDL (blood); MALE; MIDDLE AGE; PHENOTYPE; TRIGLYCERIDES (blood).

Dahms BB

THE OCCURRENCE IN A NEONATE OF A PANCREATIC ADENOMA WITH NESIDIOBLASTOSIS IN THE TUMOR. Dahms BB, Lippe BM, Dakake C, Fonkalsrud EW, Mirra JM *Am J Clin Pathol 65: 462-6, Apr 76 (Eng)* DL/76AUG429
ADOLESCENCE; CASE REPORT; HUMAN; HYPOGLYCEMIA (etiology); INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (pathology); ISLET CELL TUMOR (complications, pathology); MALE; PANCREATIC NEOPLASMS (complications, pathology).

Dakake C

THE OCCURRENCE IN A NEONATE OF A PANCREATIC ADENOMA WITH NESIDIOBLASTOSIS IN THE TUMOR. Dahms BB, Lippe BM, Dakake C, Fonkalsrud EW, Mirra JM *Am J Clin Pathol 65: 462-6, Apr 76 (Eng)* DL/76AUG429

Dallner G

BIOGENESIS OF MICROSOMAL MEMBRANE GLYCOPROTEINS IN RAT LIVER. II. PURIFICATION OF SOLUBLE GLYCOPROTEINS AND THEIR INCORPORATION INTO MICROSOMAL MEMBRANES. Autuori F, Svensson H, Dallner G *J Cell Biol 67: 700-14, Dec 75 (Eng)* *DL/76AUG536

Dancheva KI

PROTAMINE INHIBITION OF THE OXIDATIVE PHOSPHORYLATION IN INTACT, CYTOCHROME C-DEPLETED AND RESTORED MITOCHONDRIA. Kossekova GP, Mitovska MI, Dancheva KI *Acta Biol Med Ger 34: 539-47, 1975 (Eng)* *DL/76AUG870

Daniel PM

A METHOD FOR INJECTING SUBSTANCES INTO THE CIRCULATION TO REACH RAPIDLY AND TO MAINTAIN A STEADY LEVEL. WITH EXAMPLES OF ITS APPLICATION IN THE STUDY OF CARBOHYDRATE AND AMINO ACID METABOLISM. Daniel PM, Donaldson J, Pratt OE *Med Biol Eng 13: 214-27, Mar 75 (Eng)* *DL/76AUG565
AMINO ACIDS (metabolism, administration & dosage, blood); ANIMAL EXPERIMENTS; BABOONS; BLOOD SUGAR (analysis); ELECTRONICS, MEDICAL; GLUCOSE (metabolism, administration & dosage); INJECTIONS, INTRAVENOUS (methods); MODELS, BIOLOGICAL; MONKEYS; OSCILLOMETRY; RABBITS; RATS; SYRINGES.

Danon A

INCREASED ARACHIDONATE IN LIPIDS AFTER ADMINISTRATION TO MAN: EFFECTS ON PROSTAGLANDIN BIOSYNTHESIS. Seyberth HW, Oelz O, Kennedy T, Sweetman BJ, Danon A, Frolich JC, Heimberg M, Oates JA *Clin Pharmacol Ther 18: 521-9, Nov 75 (Eng)* *DL/76AUG664

Danovskii LV

[PARIETAL (MEMBRANEOUS) DIGESTION UNDER NORMAL AND PATHOLOGICAL CONDITIONS] Danovskii LV *Klin Med (Mosk) 53: 17-23, Nov 75 (Rus) [54]* DL/76AUG218
AMYLASE (physiology); BILIARY TRACT DISEASES (physiopathology); CELL MEMBRANE (physiology); CORONARY DISEASE (physiopathology); DIABETES MELLITUS (physiopathology); DIGESTION; GASTROINTESTINAL DISEASES (enzymology, physiopathology); GASTROINTESTINAL MOTILITY; HUMAN; INTESTINAL ABSORPTION; INTESTINE, SMALL (cytology, enzymology, physiology); LIPASE (physiology); PANCREATITIS (physiopathology); REVIEW.

Danowski TS

OBESITY. Danowski TS, Nolan S, Stephan T *World Rev Nutr Diet 22: 270-9, 1975 (Eng) [18]* *DL/76AUG864
ADULT; ALCOHOL DRINKING; BODY TEMPERATURE REGULATION; DIET (adverse effects); DIET, REDUCING; DIETARY CARBOHYDRATES; DIETARY FATS; ENERGY METABOLISM; EXERTION; HUMAN; INFANT, NEWBORN; NUTRITION DISORDERS (complications); OBESITY (etiology, diet therapy); REVIEW; SOMATOTYPES; STARCH; SUCROSE.

Dapergolas G

PENETRATION OF TARGET AREAS IN THE RAT BY LIPOSOME-ASSOCIATED BLEOMYCIN, GLUCOSE OXIDASE AND INSULIN. Dapergolas G, Neerunjun ED, Gregoriadis G *FEBS Lett 63: 235-9, 1 Apr 76 (Eng)* DL/76AUG91
ANIMAL EXPERIMENTS (analysis); BINDING SITES; BLEOMYCIN (metabolism); BLOOD SUGAR (metabolism); GLUCOSE OXIDASE (metabolism); INSULIN (metabolism); LIPOSOMES (metabolism); LIVER NEOPLASMS (metabolism); LIVER (metabolism); MICE; MICE, INBRED BALB C; MICE, INBRED C3H; NEOPLASMS, EXPERIMENTAL (metabolism); POLYVINYLPYRROLIDONE (blood, metabolism); PROTEIN BINDING; RATS.

Darle N

THE EFFECT OF GLUCAGON ON TOTAL LIVER BLOOD FLOW AFTER OCCLUSION OF THE HEPATIC ARTERY. A STUDY IN ANESTHETIZED, NORMOTENSIVE DOGS. Darle N, Lim RC, Lindberg B *Acta Chir Scand 142: 43-6, 1976 (Eng)* DL/76AUG397
ANIMAL EXPERIMENTS (analysis); BLOOD PRESSURE (drug effects); DOGS; GLUCAGON (pharmacodynamics); HEPATIC ARTERY (physiology); LIVER CIRCULATION (drug effects); PLACEBOS; STIMULATION, CHEMICAL; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); VENOUS PRESSURE (drug effects).

Dassler CG

[HORMONAL FUNCTION OF THE PLACENTA] Dassler CG, Kyank HR *Z Aerztl Fortbild (Jena) 69: 823-8, 1 Aug 75 (Ger)* *DL/76AUG593
DEHYDROEPIANDROSTERONE (biosynthesis); ESTRIOL (biosynthesis); ESTRONE (biosynthesis); FEMALE; HUMAN; PLACENTA (metabolism); PLACENTAL HORMONES (biosynthesis); PLACENTAL LACTOGEN (biosynthesis); PREGNANCY; PROGESTERONE (biosynthesis); RADIOIMMUNOASSAY.

Dastur DK

EALES DISEASE WITH NEUROLOGICAL INVOLVEMENT. PART 2. PATHOLOGY AND PATHOGENESIS. Dastur DK, Singhal BS *J Neurol Sci 27: 323-45, Mar 76 (Eng)* DL/76AUG195
ADULT; CASE REPORT; CENTRAL NERVOUS SYSTEM DISEASES (complications, etiology); CENTRAL NERVOUS SYSTEM (pathology); CEREBELLUM (pathology); DIABETIC ANGIOPATHIES (diagnosis); DIAGNOSIS, DIFFERENTIAL; ENCEPHALOMYELITIS, ALLERGIC (diagnosis); HUMAN; MALE; MULTIPLE SCLEROSIS (diagnosis); OPTIC NERVE (pathology); RETINA (pathology); RETINAL HEMORRHAGE (complications); RETINAL HEMORRHAGE (etiology); SYNDROME; TUBERCULOSIS (complications).

Date J

CORRELATION BETWEEN HUMAN CHORIONIC SOMATOMAMMOTROPIN AND PLACENTAL WEIGHT. Rolschau J, Date J, Kristoffersen K, Pedersen GT, Ulrich M *Acta Obstet Gynecol Scand 54: 341-6, 1975 (Eng)* *DL/76AUG598

Daubresse JC

LIPIDS AND LIPOPROTEINS IN CHRONIC URAEMIA. A STUDY OF THE INFLUENCE OF REGULAR HAEMODIALYSIS. Daubresse JC, Lerson G, Plamteux G, Rorive G, Luyckx AS, Lefebvre PJ *Eur J Clin Invest 6: 159-66, 31 Mar 76 (Eng)* DL/76AUG86
BLOOD SUGAR (analysis); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (blood); HEMODIALYSIS (diagnosis); HEPARIN-CLEARING FACTOR (blood); HUMAN; HYPERLIPEMIA (etiology); INSULIN (blood); LIPIDS (blood);

LIPOPROTEINS (blood); LIPOPROTEINS, VLDL (blood); MALE; TRIGLYCERIDES (blood); UREMIA (blood, complications, therapy).

Daughaday WH

THE EFFECTS OF INSULIN AND GROWTH HORMONE ON THE RELEASE OF SOMATOMEDIN BY THE ISOLATED RAT LIVER. Daughaday WH, Phillips LS, Mueller MC *Endocrinology 98: 1214-9, May 76 (Eng)* DL/76AUG75
ANIMAL EXPERIMENTS (analysis); HYPOPHYSECTOMY; IN VITRO; INSULIN (pharmacodynamics); LIVER (drug effects, metabolism); MALE; RATS; SOMATOMEDIN (metabolism); SOMATOTROPIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

CRANIOPHARYNGIOMA: THE ROLE OF INSULIN IN PROMOTING POSTOPERATIVE GROWTH. Costin G, Kogut MD, Phillips LS, Daughaday WH *J Clin Endocrinol Metab 42: 370-9, Feb 76 (Eng)* DL/76AUG142

SOMATOMEDIN LEVELS IN HUMAN BEINGS. Daughaday WH *Adv Metab Disord 8: 159-70, 1975 (Eng)* [36] *DL/76AUG601
ADOLESCENCE; ADULT; AGE FACTORS; BIOLOGICAL ASSAY; CHILD; CHILD, PRESCHOOL; DWARFISM, PITUITARY (blood); HUMAN; HYPOPHYSECTOMY; INFANT; REVIEW; SEASONS; SOMATOMEDIN (analysis, metabolism); SOMATOTROPIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Dausset J

[LETTER: HL-A GROUPS IN JUVENILE DIABETES] Cathelineau G, Cathelineau L, Hors J, Schmid M, Dausset J *Nouv Presse Med 5: 586, 28 Feb 76 (Fre)* DL/76AUG299

Davidson MB

EFFECT OF PROTEIN INTAKE AND DIALYSIS ON THE ABNORMAL GROWTH HORMONE, GLUCOSE, AND INSULIN HOMEOSTASIS IN UREMIA. Davidson MB, Fisher MB, Dabir-Vaziri N, Schaffer M *Metabolism 25: 455-64, Apr 76 (Eng)* DL/76AUG245
ADULT; DIETARY PROTEINS; EXERTION; FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HEMODIALYSIS; HOMEOSTASIS; HUMAN; INSULIN (metabolism); MALE; MIDDLE AGE; SOMATOTROPIN (secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UREMIA (metabolism, physiopathology, therapy).

Davies JI

QUANTITATIVE ASPECTS OF THE REGULATION OF CELLULAR CYCLIC AMP LEVELS. I. STRUCTURE AND KINETICS OF A MODEL SYSTEM. Davies JI, Williams PA *J Theor Biol 53: 1-30, Sep 75 (Eng)* *DL/76AUG562
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (biosynthesis); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ADENYLATE KINASE (metabolism); HORMONES (metabolism); KINETICS; LIGANDS; MAGNESIUM; MODELS, BIOLOGICAL; PHOSPHODIESTERASES (metabolism); PROTEIN BINDING; PROTEIN CONFORMATION; STRUCTURE-ACTIVITY RELATIONSHIP.

Davis D

ISOPROTERENOL MYOCYTOLYSIS AND MYOCARDIAL CALCIUM. Bloom S, Davis D *Recent Adv Stud Cardiac Struct Metab 4: 581-90, 1974 (Eng)* *DL/76AUG825

Davis DM

THE ASSESSMENT OF NOCTURNAL REM ERECTION IN THE DIFFERENTIAL DIAGNOSIS OF SEXUAL IMPOTENCE. Fisher C, Schiavi P, Lear H, Edwards A, Davis DM, Witkin AP *J Sex Marital Ther 1: 277-89, Summer 75 (Eng)* DL/76AUG203

Davis SE

PHYSIOLOGICAL EFFECTS OF MANNANS, GALACTOMANNANS, AND GLUCOMANNANS. PP. 296-311. Davis SE, Lewis BA *In0 Jeanes A, Hodge J, ed. Physiological effects of food carbohydrates. Washington, D.C., American Chemical Society, 1975. QU 75 A512p 1974. (Eng)* [103] DL/76AUG175
ANIMAL EXPERIMENTS (analysis); ANTICHOLESTEREMIC AGENTS (pharmacodynamics); ANTINEOPLASTIC AGENTS, PHYTOGENIC (pharmacodynamics); BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); CHEMISTRY; CHOLESTEROL (metabolism); CHOLIC ACIDS (metabolism); DIETARY CARBOHYDRATES; DIGESTION; GLYCOGEN (biosynthesis); HUMAN; INSULIN (secretion); INTESTINE, SMALL (physiology); MANNANS (metabolism, pharmacodynamics); MANNOSE (metabolism); MONOGRAPH (mortality); PLANTS; POLYSACCHARIDES (metabolism, pharmacodynamics); REVIEW; YEASTS.

Dawson AP

INHIBITION OF MITOCHONDRIAL PHOSPHATE TRANSPORT BY P-DIAZOBENZENESULPHONATE. Dawson AP *Biochem J 144: 597-99, Dec 74 (Eng)* *DL/76AUG911
AZO COMPOUNDS (pharmacodynamics); BENZENESULFONATES (pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); MITOCHONDRIA, LIVER (drug effects); PHOSPHATES (metabolism); RATS.

De Alvarado H

EFFECT OF FASTING AND INSULIN ON THE GLUCAGON-INDUCED ORTHOPHOSPHATE INCORPORATION TO THE ISOLATED PERFUSED RAT LIVER. De Venanzi F, Pena F, Jimenez O, De Alvarado H *Proc Soc Exp Biol Med 152: 47-51, May 76 (Eng)* DL/76AUG323

De Cristofaro D

TREADMILL EXERCISE TESTING OF MASS SCREENING FOR CORONARY RISK FACTORS. Allen WH, Aronow WS, De Cristofaro D *Cathet Cardiovasc Diagn 2: 39-48, 1976 (Eng)* DL/76AUG32

de Dobbeleer G

[LIPOATROPHIC DIABETES] de Dobbeleer G, Dive M, Balasse E *Arch Belg Dermatol 30: 107-9, Apr-Jun 74 (Fre)* DL/76AUG453
ADULT; CLINICAL RESEARCH; DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FACE; FEMALE; HUMAN; HYPERLIPEMIA (complications); LIPODYSTROPHY (etiology); STERILITY (complications).

De Hertogh R

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BINDING SITES; ESTRADIOL (blood); FEMALE; HUMAN; PREGNANCY IN DIABETES (blood); PREGNANCY TRIMESTER, FIRST; PREGNANCY; PROTEIN BINDING; SERUM GLOBULINS (metabolism); STANOLONE (blood); TIME FACTORS.

de Kruyff B

LIPID-STEROL INTERACTIONS IN LIPOSOMES AND MEMBRANES. de Kruyff B *Biochem Soc Trans 3: 618-21, 1975 (Eng)* *DL/76AUG503
ACHOLEPLASMA LAIDLAWII (physiology); BINDING SITES; CELL MEMBRANE PERMEABILITY (drug effects); CELL MEMBRANE (physiology); CHOLESTEROL (pharmacodynamics); CRYSTALLIZATION; LIPIDS (physiology); LIPOSOMES; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; MOLECULAR CONFORMATION; MYCOPLASMA (physiology); STEROLS (physiology); TEMPERATURE.

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ABSCESS (etiology); CASE REPORT; CHOLECYSTITIS (complications); CYSTS (etiology); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; HAND; HUMAN; JOINT DISEASES (etiology); KETOSIS, DIABETIC (etiology); MIDDLE AGE; PANCREATIC DISEASES (etiology); PANCREATITIS (etiology); TRIGLYCERIDES (blood).

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AGED; BRONCHIAL NEOPLASMS (metabolism, physiopathology); CORTICOTROPIN (secretion); ENGLISH ABSTRACT; GONADOTROPINS, CHORIONIC (secretion); HUMAN; HYPERGLYCEMIA (etiology); MALE.

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ANIMAL EXPERIMENTS (analysis); BINDING SITES; CELL MEMBRANE (metabolism, ultrastructure); HEMOGLOBINS (metabolism); HUMAN; INSULIN (metabolism); KINETICS; LIVER (metabolism); LYMPHOCYTES (metabolism); MACROMOLECULAR SYSTEMS; MICROSCOPY, ELECTRON; MODELS, BIOLOGICAL; ORGAN SPECIFICITY; PROTEIN BINDING; PROTEIN CONFORMATION; PROTEINS (metabolism); RECEPTORS, HORMONE; SPECIES SPECIFICITY; THYROID GLAND (metabolism).

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ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); GLYCOGEN (metabolism); INSULIN (blood); MALE; MUSCLES (drug effects, metabolism); RATS; STREPTOZOTOCIN (pharmacodynamics); TIME FACTORS.

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AGED; CASE REPORT; CHLORPROPAMIDE (adverse effects, therapeutic use); DIABETES MELLITUS (drug therapy); FEMALE; HUMAN; HYPONATREMIA (chemically induced); PHENFORMIN (adverse effects, therapeutic use).

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ACETYL COENZYME A (metabolism); ADAPTATION, PHYSIOLOGICAL; ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BRAIN (metabolism); FATTY ACIDS (metabolism); GLUCAGON (blood); GLUCONEOGENESIS; GLUCOSE (biosynthesis); GLYCOGEN (metabolism); HOMEOSTASIS; HUMAN; INSULIN (blood); KETONE BODIES (metabolism); LACTATES (metabolism); LIVER (metabolism); MONOGRAPH (mortality); MUSCLES (metabolism); REVIEW; STARVATION (metabolism, physiopathology).

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MALATE TRANSPORT INTO HEART MITOCHONDRIA. Digerness SB, Reddy WJ *J Mol Cell Cardiol 7: 677-84, Sep 75 (Eng)* *DL/76AUG729
ADENOSINE DIPHOSPHATE (pharmacodynamics); ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE; IN VITRO; MALATES (metabolism, pharmacodynamics); MALE; MITOCHONDRIA, MUSCLE (metabolism); MYOCARDIUM (metabolism, ultrastructure); OSMOLAR CONCENTRATION; OXYGEN CONSUMPTION; PHILIPPINES; PHOSPHATES (pharmacodynamics); PYRUVATES (pharmacodynamics); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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[POSTPRANDIAL LEVELS OF BLOOD SUGAR, CHOLESTEROL AND TOTAL LIPIDS IN A GROUP OF NORMAL STUDENTS] Sneer A, Buiuc C, Dughir E, Dimitriu M *Rev Med Chir Soc Med Nat Iasi 79: 555-60, Oct-Dec 75 (Rum)* DL/76AUG333

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INTERACTION OF ETHACRYNIC ACID WITH CONTROL SITES OF RENAL GLUCOSE METABOLISM. Fulgraff G, Dingler-Nunemann H *Curr Probl Clin Biochem 4: 131-4, 1975 (Eng)* *DL/76AUG486

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Dobesova L

[INSULIN SECRETION IN PATIENTS FOLLOWING JURASZS SURGERY FOR PANCREATIC PSEUDOCYST] Svoboda Z, Prokes J, Dobesova L *Vnitr Lek 22: 336-40, Apr 76 (Cze)* DL/76AUG362

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[INSULIN HYPOGLYCEMIA, A FUNCTIONAL TEST OF THE STATE OF THE HYPOTHALAMO-HYPOPHYSEO-ADRENAL SYSTEM IN OBESITY] Dobrev D, Pavlov D, Stoilov L *Vutr Boles 14: 73-8, 1975 (Bul)* DL/76AUG370
ADOLESCENCE; ADRENAL GLANDS (physiopathology); ADULT; BLOOD SUGAR (analysis); ENGLISH ABSTRACT; FEMALE; HUMAN; HYDROCORTISONE (blood); HYPOGLYCEMIA (chemically induced); HYPOTHALAMUS (physiopathology); INSULIN (diagnostic use); MALE; MIDDLE AGE; OBESITY (diagnosis, physiopathology); PITUITARY GLAND (physiopathology).

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[CARBOHYDRATE TOLERANCE, SERUM INSULIN AND TRIGLYCERIDES IN CORONARY DISEASE] Dobrev DG, Ilkov A *Vutr Boles 14: 11-22, 1975 (Bul)* DL/76AUG371
ADULT; AGED; ANGINA PECTORIS (blood); ANTIGENS (analysis); BLOOD SUGAR (analysis); CORONARY DISEASE (blood); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); MALE; MIDDLE AGE; MYOCARDIAL INFARCT (blood); TRIGLYCERIDES (blood).

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ALTERED HEXOSE TRANSPORT AND SALT SENSITIVITY IN CYCLIC ADENOSINE 3,5-MONOPHOSPHATE-DEFICIENT ESCHERICHIA COLI. Ezzell JW, Dobrogosz WJ *J Bacteriol 124: 815-24, Nov 75 (Eng)* *DL/76AUG711

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PLASMA IMMUNOREACTIVE INSULIN AND SOMATOTROPIN IN DELIRIUM TREMENS AND ALCOHOLIC HALLUCINOSIS. Dobrzanski T, Pieschl D *J Stud Alcohol 37: 327-33, Mar 76 (Eng)* DL/76AUG224
ACUTE DISEASE; ADULT; ALCOHOLISM (metabolism); AMMONIA (blood); ANTIGENS (analysis); BLOOD SUGAR (analysis); CHLORPROMAZINE (poisoning); CHRONIC DISEASE; DELIRIUM TREMENS (metabolism); GLUCOSE TOLERANCE TEST; GLYCOGEN (blood); HALLUCINATIONS (metabolism); HUMAN; INSULIN (blood); MALE; METHOTRIMEPRAZINE (poisoning); PROMAZINE (poisoning); PSYCHOSES, ALCOHOLIC (metabolism); SOMATOTROPIN (blood); 17-HYDROXYCORTICOSTEROIDS (blood).

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[EFFECTS OF GLUCAGON ON THE GASTRIC MICROCIRCULATION OF THE RAT] Cagol PP, Dodi G, Zanon GF *Chir Patol Sper 23: 111-4, Jun 75 (Ita)* DL/76AUG61

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ANIMAL EXPERIMENTS; CHOLESTEROL (metabolism); EXERTION; FATTY ACIDS, NONESTERIFIED (metabolism); LIPIDS (metabolism); MALE; MITOCHONDRIA, MUSCLE (metabolism); OXYGEN CONSUMPTION; PHOSPHOLIPIDS (metabolism); PHYSICAL CONDITIONING, ANIMAL; RATS; SUCCINATES (metabolism); TRIGLYCERIDES (metabolism).

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THE ROLE OF TRACE ELEMENTS IN HUMAN NUTRITION AND METABOLISM. PP. 156-77. Tuman RW, Doisy RJ *In0 Jeanes A, Hodge J, ed. Physiological effects of food carbohydrates. Washington, D.C., American Chemical Society, 1975. QU 75 A512p 1974. (Eng)* [59] DL/76AUG177

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SELECTIVE INHIBITION OF THE FACILITATED MODE OF SUGAR UPTAKE BY CYTOCHALASIN B IN CULTURED CHICK FIBROBLASTS. Dolberg DS, Bassham JA, Bissell MJ *Exp Cell Res 96: 129-37, Nov 75 (Eng)* *DL/76AUG498
BIOLOGICAL TRANSPORT, ACTIVE; CELL DIVISION (drug effects); CELL TRANSFORMATION, NEOPLASTIC; CELLS, CULTURED; CYTOCHALASIN B (pharmacodynamics); DEOXY SUGARS (metabolism); DEOXYGLUCOSE (metabolism); DNA REPLICATION (drug effects); GLUCOSE (pharmacodynamics); KINETICS; MANNITOL (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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[EFFECT OF CATECHOLAMINES ON THE METABOLISM OF GLUCOSE, FATTY ACIDS AND ON THE HEART RATE IN GOATS] Bartos S, Dolezel F, Kolbl M *Vet Med (Praha) 20: 289-301, May 75 (Cze)* *DL/76AUG591

EFFECT OF EPINEPHRINE ON ADIPOSE TISSUE METABOLISM IN GOATS. Bartos S, Dolezel F, Jukl A *Endocrinol Exp (Bratisl) 9: 229-38, Sep 75 (Eng)* *DL/76AUG669

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[METABOLIC BEHAVIOR AND UTILIZATION OF PARENTERALLY ADMINISTERED CARBOHYDRATES IN THE POSTOPERATIVE PHASE] Dolp R, Grab E, Knoche E, Ahnefeld FW *Infusionstherapie 2: 103-10, Apr 75 (Ger)* *DL/76AUG699
ADULT; BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism, urine); ENERGY METABOLISM; ENGLISH ABSTRACT; FEMALE; FRUCTOSE (metabolism); GLUCOSE (metabolism); HUMAN; HYSTERECTOMY; INFUSIONS,

Dudenhausen JW, Dudenhausen R *Z Geburtshilfe Ferinatol 180: 46-50, Feb 76 (Ger)* DL/76AUG388

Dudzinski W

[ATTEMPT AT TREATING DIABETIC KETOACIDOSIS WITH SMALL DOSES OF INSULIN] Dudzinski W *Pol Tyg Lek 31: 377-8, 1 Mar 76 (Pol)* DL/76AUG303
ACIDOSIS, DIABETIC (drug therapy); HUMAN; INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (drug therapy).

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THE EFFECT OF 2-DEOXY-D-GLUCOSE AND 3-O-METHYL-D-GLUCOSE ON MUCOSUBSTANCE SECRETION IN CELL CULTURE. Duguid R, Marsden JC *Biochem Soc Trans 3: 498-9, 1975 (Eng)* *DL/76AUG684
CELLS, CULTURED; DEOXY SUGARS (pharmacodynamics); DEOXYGLUCOSE (pharmacodynamics); HYALURONIC ACID (secretion); METHYLGLUCOSIDES (pharmacodynamics); METHYLGLYCOSIDES (pharmacodynamics); OUABAIN (pharmacodynamics); ROUS SARCOMA VIRUS (metabolism).

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CYCLOHEXIMIDE (pharmacodynamics); DIETARY FATS; DIETARY PROTEINS; DRUG STABILITY; ENZYME ACTIVATION (drug effects); FASTING; GLUCOSE (pharmacodynamics); INSULIN (pharmacodynamics); LIVER (drug effects, enzymology); PHOSPHOFRUCTOKINASE (metabolism); PRONASE; PROTEINS (isolation & purification, physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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BLOOD SUGAR (metabolism); FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (immunology); GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); GLUCOSE (pharmacodynamics); HUMAN; INSULIN ANTIBODIES (analysis); INSULIN (secretion); MALE; SECRETIN (administration & dosage, pharmacodynamics); TIME FACTORS.

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AN ATTEMPT AT BLOCKING THE CARDIOVASCULAR AND METABOLIC SIDE-EFFECTS OF BETA-MIMETIC DRUGS DURING LABOR. Esteban-Altirriba J, Rene AM, Duran P, Cabero L, Giralt E, Carreras M, Garcia-Cambronero MT *J Perinat Med 2: 243-53, 1974 (Eng)* *DL/76AUG724

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ADRENAL CORTEX (physiopathology); ADRENAL GLANDS (physiopathology); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR; CHOLESTEROL (blood); COMPARATIVE STUDY; EOSINOPHILS; HYPOGLYCEMIA (blood, physiopathology); INSULIN (pharmacodynamics); LEUKOCYTE COUNT; SWINE; VITAMIN E (blood); 17-HYDROXYCORTICOSTEROIDS (blood).

Dvorakova L

[POSSIBILITIES IN PREVENTION OF MANIFEST DIABETES MELLITUS IN POTENTIAL DIABETICS (PRELIMINARY REPORT)] Dvorakova L, Valnickova J, Mikan M, Prokes J *Vnitr Lek 22: 262-7, Mar 76 (Cze)* DL/76AUG360
ADULT; DIABETES MELLITUS (prevention & control); ENGLISH ABSTRACT; HUMAN; MENTAL HEALTH; MIDDLE AGE; NUTRITION; SPORTS.

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ADENOSINE TRIPHOSPHATE; ANIMAL; BINDING SITES; GLUCOSEPHOSPHATES; HEXOKINASE (metabolism); MACROMOLECULAR SYSTEMS; MAGNESIUM; MOLECULAR WEIGHT; MYOCARDIUM (enzymology); PHOSPHATES, INORGANIC; PROTEIN BINDING; PROTEIN CONFORMATION; SWINE.

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[CHROMAFFINE TUMOURS: DIAGNOSIS AND CATAMNESTIC FEATURES BASED ON THE DATA COLLECTED AT THE INSTITUTE OF EXPERIMENTAL THERAPY BETWEEN 1949 AND 1974 (AUTHORS TRANSL)] Ebel H, Classen HG *Arzneim Forsch 25: 1610-21, Oct 75 (Ger)* *DL/76AUG621
ADOLESCENCE; ADULT; ANIMAL EXPERIMENTS; BIOLOGICAL ASSAY; BIOTRANSFORMATION; BLOOD PRESSURE (drug effects); BLOOD SUGAR; CATECHOLAMINES (urine); CATS; DIAGNOSIS, DIFFERENTIAL; ENGLISH ABSTRACT; EPINEPHRINE (urine); FALSE POSITIVE REACTIONS; FEMALE; HUMAN; HYPERTENSION (urine, complications); MALE; METANEPHRINE (urine); MIDDLE AGE; NOREPINEPHRINE (urine); PARAGANGLIOMA (diagnosis, urine, complications); POTASSIUM (blood); VANILMANDELIC ACID (urine).

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EXPLORING SITES ON MITOCHONDRIAL ATPASE FOR CATALYSIS, REGULATION, AND INHIBITION. Lardy HA, Schuster SM, Ebel RE *J Supramol Struct 3: 214-21, 1975 (Eng)* *DL/76AUG738

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[A GLUCOSE DEHYDROGENASE FOR THE DETERMINATION OF GLUCOSE CONCENTRATIONS IN BODY FLUIDS (AUTHORS TRANSL)] Banauch D, Brummer W, Ebeling W, Metz H, Rindfrey H, Lang H, Leybold K, Rick W, Staudinger HJ *Z Klin Chem Klin Biochem 13: 101-7, Mar 75 (Ger)* *DL/76AUG865

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ACIDOSIS (chemically induced); CASE REPORT; FEMALE; HUMAN; PHENFORMIN (adverse effects).

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[SOMATOSTATIN AND SOMATOMEDINS--NEW HORMONES WITH CONNECTION TO DIABETES RESEARCH AND FUTURE DIABETES THERAPY] Efendic S, Hall K, Hokfelt T, Luft R *Lakartidningen 13: 1198-202, 24 Mar 76 (Swe)* DL/76AUG227
BLOOD SUGAR; DIABETES MELLITUS (drug therapy); DIABETIC ANGIOPATHIES (chemically induced); ENGLISH ABSTRACT; HUMAN; SOMATOMEDIN (therapeutic use); SOMATOTROPIN RELEASE INHIBITING HORMONE (therapeutic use); SOMATOTROPIN (adverse effects); SOMATOTROPIN (blood).

Eiber NS

[CERTAIN INDICATORS OF THE FUNCTIONAL STATE OF FETOPLACENTAL COMPLEX IN PREGNANCY COMPLICATED BY LATE TOXEMIA AND THREATENED ABORTION] Anisimova MI, Eiber NS, Kiriasova ZhR *Vopr Okhr Materin Det 19: 62-6, Apr 74 (Rus)* *DL/76AUG860

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RAT ADIPOSE TISSUE GLYCOGEN SYNTHASE. EVIDENCE FOR MULTIPLE DISCRETE KINETIC SPECIES AND THEIR INTERCONVERSION. Eichner RD *J Biol Chem 251: 2316-22, 25 Apr 76 (Eng)* DL/76AUG132
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADIPOSE TISSUE (enzymology); ANIMAL EXPERIMENTS (analysis); DIABETES MELLITUS (chemically induced, enzymology); ENZYME ACTIVATION (drug effects); GLYCOGEN SYNTHETASE (metabolism); KINETICS; MACROMOLECULAR SYSTEMS; MAGNESIUM (pharmacodynamics); MALE; MOLECULAR WEIGHT; RATS; STREPTOZOTOCIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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Eilam Y

TWO-CARRIER MODELS FOR MEDIATED TRANSPORT. I. THEORETICAL ANALYSIS OF SEVERAL TWO-CARRIER MODELS. Eilam Y *Biochim Biophys Acta 401: 349-63, 2 Sep 75 (Eng)* *DL/76AUG622
BINDING SITES; BIOLOGICAL TRANSPORT; BLOOD SUGAR (analysis); ERYTHROCYTES (metabolism); GALACTOSEMIA; KINETICS; MATHEMATICS; MODELS, BIOLOGICAL.

TWO-CARRIER MODELS FOR MEDIATED TRANSPORT. II. GLUCOSE AND GALACTOSE EQUILIBRIUM EXCHANGE EXPERIMENTS IN HUMAN ERYTHROCYTES AS A TEST FOR SEVERAL TWO-CARRIER MODELS. Eilam Y *Biochim Biophys Acta 401: 364-9, 2 Sep 75 (Eng)* *DL/76AUG623
BIOLOGICAL TRANSPORT; ERYTHROCYTES (metabolism); GALACTOSE (metabolism); GLUCOSE (metabolism); HUMAN; KINETICS; MODELS, BIOLOGICAL.

Einarsson K

INFLUENCE OF CHOLESTEROL FEEDING ON LIVER MICROSOMAL METABOLISM OF STEROIDS AND BILE ACIDS IN CONVENTIONAL AND GERM-FREE RATS. Gustafsson BE, Einarsson K, Gustafsson J *J Biol Chem 250: 8496-502, 10 Nov 75 (Eng)* *DL/76AUG529

Eisenman G

THE KINETICS OF CARRIER-MEDIATED ION PERMEATION IN LIPID BILAYERS AND ITS THEORETICAL INTERPREATATION. Laprade R, Ciani S, Eisenman G, Szabo G *Membranes 3: 127-214, 1975 (Eng)* [24] *DL/76AUG575

Eisenstein AB

NUTRITION AND THE ENDOCRINE GLANDS. Eisenstein AB, Singh SP, Thakor P *Prog Food Nutr Sci 1: 531-58, 1975 (Eng)* [135] DL/76AUG330
ADOLESCENCE; ADRENAL CORTEX (physiology); ADULT; AGE FACTORS; AGED; ANIMAL EXPERIMENTS (analysis); CARBOHYDRATES (metabolism); CHILD; DIABETES MELLITUS (metabolism); ENDOCRINE GLANDS (physiology); FEMALE; GLUCOCORTICOIDS (physiology); HUMAN; HYPERTHYROIDISM (metabolism); HYPOTHYROIDISM (metabolism); INSULIN RESISTANCE; INSULIN (physiology); ISLANDS OF LANGERHANS (physiology); LIPIDS (metabolism); MALE; MIDDLE AGE; NUTRITION; OBESITY IN DIABETES (physiopathology); PROTEINS (metabolism); REVIEW; THYROID GLAND (physiology).

Ekins RP

RADIOIMMUNOASSAY AND SATURATION ANALYSIS. BASIC PRINCIPLES AND THEORY. Ekins RP *Br Med Bull 30: 3-11, Jan 74 (Eng)* *DL/76AUG643
HORMONES (analysis); RADIOIMMUNOASSAY.

Ekstedt B

BINDING OF CARDIOLIPIN/LECITHIN AND MONOAMINE OXIDASE TO LIPID-DEPLETED MITOCHONDRIAL MEMBRANE STRUCTURE. Ekstedt B, Olivecrona T, Oreland L *Arch Biochem Biophys 171: 170-5, Nov 75 (Eng)* *DL/76AUG896
ANIMAL; BINDING SITES; CARDIOLIPINS (metabolism); LECITHINS (metabolism); LIPOSOMES; MEMBRANES (metabolism, analysis); MITOCHONDRIA, LIVER (metabolism, analysis); MONOAMINE OXIDASE (metabolism); PHOSPHOLIPIDS (isolation & purification); PROTEIN BINDING; RECEPTORS, DRUG; SWINE.

Elde RP

IMMUNOCYTOCHEMICAL LOCALIZATION OF SOMATOSTATIN IN CELL BODIES OF THE RAT HYPOTHALAMUS. Elde RP, Parsons JA *Am J Anat 144: 541-8, Dec 75 (Eng)* *DL/76AUG605
ANIMAL EXPERIMENTS; CELL NUCLEUS (analysis); FEMALE; HYPOTHALAMUS (analysis, ultrastructure); MAMMARY NEOPLASMS, EXPERIMENTAL (analysis); NEURONS (analysis); NEUROSECRETORY SYSTEMS (analysis, ultrastructure); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (analysis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Elders MJ

GLUCOCORTICOID THERAPY IN CHILDREN. EFFECT ON SOMATOMEDIN SECRETION. Elders MJ, Wingfield BS, McNatt ML, Clarke JS, Hughes ER *Am J Dis Child 129: 1393-6, Dec 75 (Eng)* *DL/76AUG606
ADOLESCENCE; AGE FACTORS; CARTILAGE (drug effects); CHICK EMBRYO (drug effects); CHILD; CHILD, PRESCHOOL; FEMALE; GROWTH DISORDERS (chemically induced); HUMAN; INFANT; MALE; METHYLPREDNISOLONE (adverse effects, therapeutic use, administration & dosage); NEPHROSIS (drug therapy); PREDNISONE (adverse effects, therapeutic use, administration & dosage); SOMATOMEDIN (secretion, blood); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Ellenbogen G

[EXPERIMENTAL PANCREATIC ALLOTRANSPLANTATION IN DOGS: BIOCHEMICAL ASPECTS AND EVOLUTION] Ellenbogen G, Raia AA, Zilberstein B, Pollara WM, Neto OB, Morimoto RY, Pinotti HW *Rev Hosp Clin Fac Med Sao Paulo 30: 340-4, Jul-Aug 75 (Por)* *DL/76AUG841
AMYLASE (blood); ANIMAL; BLOOD SUGAR (analysis); DOGS; ENGLISH ABSTRACT; GRAFT REJECTION; GRAFT VS HOST REACTION; HISTOCOMPATIBILITY TESTING; IMMUNOSUPPRESSION; PANCREAS (transplantation); TRANSPLANTATION IMMUNOLOGY; TRANSPLANTATION, ALLOGENEIC.

Eller RR

EFFECTS OF STARVATION ON ISOLATED HEART PERFORMANCE AND MITOCHONDRIAL CALCIUM SEQUESTERING. Eller RR *Recent Adv Stud Cardiac Struct Metab 4: 347-57, 1974 (Eng)* *DL/76AUG821
ANIMAL; CALCIUM (metabolism, pharmacodynamics); CORONARY CIRCULATION; DOSE-RESPONSE RELATIONSHIP, DRUG; GLYCOGEN (metabolism); HEART RATE (drug effects); HEART (physiopathology); MICE (physiology); MITOCHONDRIA, MUSCLE (metabolism); MYOCARDIUM (ultrastructure, metabolism); STARVATION (physiopathology, metabolism, blood); TEMPERATURE.

Ellis PP

GLYCEROL AND HYPEROSMOLAR NONKETOTIC COMA. Oakley DE, Ellis PP *Am J Ophthalmol 81: 469-72, Apr 76 (Eng)* DL/76AUG435

Elphick MC

TRANSFER OF FATTY ACIDS ACROSS THE RABBIT PLACENTA. Elphick MC, Hudson DG, Hull D *J Physiol (Lond) 252: 29-42, Oct 75 (Eng)* *DL/76AUG553
ADIPOSE TISSUE (secretion, drug effects); ANIMAL EXPERIMENTS; FATTY ACIDS, NONESTERIFIED (metabolism, secretion); FEMALE; FETUS (metabolism, drug effects); GLUCOSE (metabolism); GLYCERIN (secretion); IN VITRO; MATERNAL-FETAL EXCHANGE; METABOLIC CLEARANCE RATE; NOREPINEPHRINE (pharmacodynamics); PALMITATES (metabolism); PLACENTA (metabolism); PREGNANCY; RABBITS.

Emmanuel B

EFFECTS OF 1,3-BUTANEDIOL AND 1,2-PROPANEDIOL ON BLOOD KETONE BODIES AND GLUCOSE IN SHEEP FED RESTRICTED DIETS. Emmanuel B, Nahapetian A *J Anim Sci 41: 1468-73, Nov 75 (Eng)* *DL/76AUG523
ACETOACETATES (blood); ANIMAL EXPERIMENTS; BLOOD SUGAR (analysis); BUTANEDIOLS (metabolism); HYDROXYBUTYRATES (blood); KETONES (blood); MALE; PROPANEDIOLS (metabolism); SHEEP (metabolism).

Emmerson RW

ACANTHOSIS NIGRICANS AND ERUPTIVE XANTHOMA. Emmerson RW *Proc R Soc Med 69: 311-2, Apr 76 (Eng)* DL/76AUG320
ACANTHOSIS NIGRICANS (etiology); ADENOCARCINOMA (complications, pathology); ADULT; CASE REPORT; DIABETES MELLITUS (complications); HUMAN; HYPERLIPEMIA (complications); LIVER NEOPLASMS (complications, pathology); MALE; XANTHOMATOSIS (etiology).

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(secretion); ISLANDS OF LANGERHANS (enzymology); LIVER (enzymology); MALE; MONOAMINE OXIDASE INHIBITORS (pharmacodynamics); MONOAMINE OXIDASE (metabolism); PANCREAS (secretion); PHENOXYBENZAMINE (pharmacodynamics); PHENTOLAMINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RABBITS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

PREPARATION OF ISLETS OF LANGERHANS FROM RABBITS AND HAMSTERS BY THE COLLAGENASE DIGESTION TECHNIQUE. Feldman JM, Chapman B *Acta Diabetol Lat 12: 208-18, May-Aug 75 (Eng)* DL/76AUG403
ANIMAL EXPERIMENTS (analysis); CLOSTRIDIOPEPTIDASE A; HAMSTERS; HISTOLOGICAL TECHNICS; ISLANDS OF LANGERHANS; RABBITS.

Felix JM

[IMMUNO-REACTIVE INSULIN-LIKE SUBSTANCES IN THE RAT] Felix JM, Sutter-Dub MT, Legrele C, Billaudel B, Sutter BC, Jacquot R *Pathol Biol (Paris) 23: 841-8, Dec 75 (Fre)* DL/76AUG283
ANIMAL EXPERIMENTS (analysis); CARBON; DEXTRAN; ENGLISH ABSTRACT; FRACTIONATION; INSULIN ANTIBODIES (immunology); INSULIN (isolation & purification); MOLECULAR WEIGHT; PANCREAS (analysis); RADIOIMMUNOASSAY; RATS.

Fellows NF

THE ROLE OF UNSATURATED FATTY ACIDS IN MITOCHONDRIAL MEMBRANE FUNCTIONS. Haslam JM, Fellows NF *Biochem Soc Trans 3: 772-5, 1975 (Eng)* *DL/76AUG506

Fernstrom JD

THE EFFECT OF NUTRITIONAL FACTORS ON BRAIN AMINO ACID LEVELS AND MONOAMINE SYNTHESIS. Fernstrom JD *Fed Proc 35: 1151-6, Apr 76 (Eng)* DL/76AUG92
AMINO ACIDS (blood, metabolism); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; BRAIN (drug effects, metabolism); CATECHOLAMINES (biosynthesis); DIET; INSULIN (pharmacodynamics); MONOAMINE OXIDASE INHIBITORS (pharmacodynamics); SEROTONIN (biosynthesis); TRYPTOPHAN HYDROXYLASE (metabolism); TRYPTOPHAN (metabolism); TYROSINE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Feroldi P

[CORONARY RISK FACTORS AND ISCHEMIC HEART DISEASE IN BUS DRIVERS AND CONDUCTORS] Rusconi C, Arosio G, Orlando G, Petroboni V, Riva S, Gola E, Benedini G, Cicogna R, Frau G, Prandini BD, Spandrio L, Feroldi P *Minerva Cardioangiol 23: 718-27, Nov 75 (Ita)* DL/76AUG275

Ferrans VJ

INTRAMITOCHONDRIAL GYLCOGEN DEPOSITS IN HYPERTROPHIED HUMAN MYOCARDIUM. Maron BJ, Ferrans VJ *J Mol Cell Cardiol 7: 697-702, Sep 75 (Eng)* *DL/76AUG731

Ferrari C

POTENTIATION OF HYPOGLYCEMIC RESPONSE TO INTRAVENOUS TOLBUTAMIDE BY CLOFIBRATE. Ferrari C, Frezzati S, Testori GP, Bertazzoni A *N Engl J Med 294: 1184, 20 May 76 (Eng)* DL/76AUG265
CLOFIBRATE (pharmacodynamics, therapeutic use); DIABETES MELLITUS (drug therapy); DRUG SYNERGISM; HUMAN; TOLBUTAMIDE (administration & dosage, pharmacodynamics, therapeutic use).

Ferrari G

STIMULATION OF 45CA EFFLUX FROM SMOOTH MUSCLE CELLS BY METABOLIC INHIBITION AND HIGH K DEPOLARIZATION. Van Breemen C, Wuytack F, Casteels R, Martinelli B, Campailla E, Ferrari G *Pfluegers Arch 359: 183-96, 9 Sep 75 (Eng)* *DL/76AUG758

Fester A

INOTROPIC ACTION OF TOLBUTAMIDE ON HUMAN MYOCARDIUM. Hildner FJ, Yeh BK, Javier RP, Fester A, Samet P *Cathet Cardiovasc Diagn 1: 47-57, 1975 (Eng)* DL/76AUG31

Feurle GE

[GASTROINTESTINAL HORMONES] Feurle GE *Internist (Berlin) 17: 129-35, Mar 76 (Ger)* DL/76AUG124
CHOLECYSTOKININ; GASTRIN (blood); GASTROINTESTINAL HORMONES; GLUCAGON; HUMAN; PANCREOZYMIN; PEPTIDES; SECRETIN; SOMATOTROPIN RELEASE INHIBITING HORMONE); ZOLLINGER-ELLISON SYNDROME (blood).

Field SO

THE HLB DEPENDENCY FOR DETERGENT SOLUBILIZATION OF HORMONALLY SENSITIVE ADENYLATE CYCLASE. Storm DR, Field SO, Ryan J *J Supramol Struct 4: 221-31, 1976 (Eng)* DL/76AUG221

Figueroa I

PROTECTIVE EFFECT OF STEROIDS ON LIVER ISCHEMIA. Santiago Delpin EA, Figueroa I, Lopez R, Vazquez J *Am Surg 41: 683-5, Nov 75 (Eng)* *DL/76AUG889

Filler RM

TOTAL PARENTERAL NUTRITION IN INFANTS AND CHILDREN: CENTRAL AND PERIPHERAL APPROACHES. Filler RM, Coran AG *Surg Clin North Am 56: 395-412, Apr 76 (Eng)* DL/76AUG346
ACIDOSIS (etiology); CHILD NUTRITION; CHILD; COPPER (deficiency); DIETARY FATS (administration & dosage); HUMAN; HYPERCALCEMIA (etiology); HYPERGLYCEMIA (etiology); HYPOCALCEMIA (etiology); INFANT NUTRITION; INFANT; INFECTION (etiology); LIVER DISEASES (etiology); PARENTERAL FEEDING (adverse effects, instrumentation, methods).

Fingerhut A

[RENAL INSUFFICIENCY AND DIABETES CURED BY REMOVAL OF A VILLOUS TUMOR OF THE RECTUM] Eugene C, Fingerhut A, Quevauvilliers J *Nouv Presse Med 5: 781-3, 20 Mar 1976 (Fre)* DL/76AUG294

Fink WJ

LEG MUSCLE METABOLISM DURING EXERCISE IN THE HEAT AND COLD. Fink WJ, Costill DL, Van Handel PJ *Eur J Appl Physiol 34: 183-90, 15 Aug 75 (Eng)* *DL/76AUG673
ADULT; BLOOD SUGAR (metabolism); BODY TEMPERATURE; COLD; COMPARATIVE STUDY; EXERTION; FATTY ACIDS, NONESTERIFIED (blood); GLYCOGEN (metabolism); GLYCOLYSIS; HEART RATE; HEAT; HUMAN; LACTATES (blood); MALE; MUSCLES (metabolism, blood supply); OXYGEN CONSUMPTION; PLASMA VOLUME; REGIONAL BLOOD FLOW; TEMPERATURE; THIGH; TRIGLYCERIDES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Fisher C

THE ASSESSMENT OF NOCTURNAL REM ERECTION IN THE DIFFERENTIAL DIAGNOSIS OF SEXUAL IMPOTENCE. Fisher C, Schiavi P, Lear H, Edwards A, Davis DM, Witkin AP *J Sex Marital Ther 1: 277-89, Summer 75 (Eng)* DL/76AUG203
ADULT; AGE FACTORS; CASE REPORT; COLECTOMY (adverse effects); DIABETIC NEUROPATHIES (complications); DIAGNOSIS, DIFFERENTIAL; HUMAN; HYPOSPADIAS (complications); IMPOTENCE (diagnosis, etiology, surgery); MALE; MIDDLE AGE; PENIS (innervation); PROSTHESIS; PSYCHOPHYSIOLOGIC DISORDERS; SEX BEHAVIOR; SLEEP, REM; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Fisher JD

EFFECTS OF DEXTROTHYROXINE ON HYPERLIPIDEMIA AND EXPERIMENTAL ATHEROSCLEROSIS IN BEAGLE DOGS. Nandan R, Fisher JD, Towery EP, Brown DR, Ganote E, Jennings RB *Atherosclerosis 22: 299-311, Sep-Oct 75 (Eng)* *DL/76AUG924

Fisher MB

EFFECT OF PROTEIN INTAKE AND DIALYSIS ON THE ABNORMAL GROWTH HORMONE, GLUCOSE, AND INSULIN HOMEOSTASIS IN UREMIA. Davidson MB, Fisher MB, Dabir-Vaziri N, Schaffer M *Metabolism 25: 455-64, Apr 76 (Eng)* DL/76AUG245

Fitch CD

CHLOROQUINE RESISTANCE IN MALARIA: VARIATIONS OF SUBSTRATE-STIMULATED CHLOROQUINE ACCUMULATION. Fitch CD, Chevli R, Gonzalez Y *J Pharmacol Exp Ther 195: 389-96, Dec 75 (Eng)* *DL/76AUG551
ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); CHLOROQUINE (therapeutic use, blood); DRUG RESISTANCE; ERYTHROCYTES (metabolism, parasitology); MALARIA (drug therapy, blood, parasitology); MALE; MICE; MICE, INBRED STRAINS; PLASMODIUM BERGHEI (metabolism); PLASMODIUM (metabolism); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

Fleming M

LOWERING OF PLASMA CHOLESTEROL LEVELS IN FREE-LIVING ADOLESCENT MALES; USE OF NATURAL AND SYNTHETIC POLYUNSATURATED FOODS TO PROVIDE BALANCED FAT DIETS. Stein EA, Mendelsohn D, Fleming M, Barnard GD, Carter KJ, du Toit PS, Hansen JD, Bersohn I *Am J Clin Nutr 28: 1204-16, Nov 75 (Eng)* *DL/76AUG879

Fleming N

HORMONAL CONTROL OF GLUCOSE PRODUCTION BY AMPHIUMA MEANS LIVER IN ORGAN CULTURE. Brown D, Fleming N, Balls M *Gen Comp Endocrinol 27: 380-8, Nov 75 (Eng)* DL/76AUG103

Florea I

GROWTH HORMONE RELEASE BY GLYCINE INJECTED INTRAVENOUSLY IN 22 HEALTHY SEXUALLY IMMATURE CHILDREN. Popa M, Florea I *Biomedicine [Express] 23: 131-3, 30 Apr 75 (Eng)* DL/76AUG6

Fluker G

THE DEVELOPMENT OF A GLUCOSE CLAMP. Norwich KH, Fluker G, Anthony J, Popescu I, Pagurek B, Hetenyi G Jr *Metabolism 24: 1221-30, Nov 75 (Eng)* *DL/76AUG744

Fodge DW

STIMULATION OF LACTIC ACID PRODUCTION IN CHICK EMBRYO FIBROBLASTS BY SERUM AND HIGH PH IN THE ABSENCE OF EXTERNAL GLUCOSE. Fodge DW, Rubin H *J Cell Physiol 86: 453-7, Dec 75 (Eng)* *DL/76AUG539

Freyria J

[SCREENING FOR HYPERLIPEMIA IN YOUNG ADULTS] Fromantin M, Freyria J, Drieu M, Bon R *Nouv Presse Med 5: 851-2, 27 Mar 76 (Fre)* DL/76AUG295

Frezzati S

POTENTIATION OF HYPOGLYCEMIC RESPONSE TO INTRAVENOUS TOLBUTAMIDE BY CLOFIBRATE. Ferrari C, Frezzati S, Testori GP, Bertazzoni A *N Engl J Med 294: 1184, 20 May 76 (Eng)* DL/76AUG265

Frieden E

NON-COVALENT INTERACTIONS. KEYTO BIOLOGICAL FLEXIBILITY AND SPECIFICITY. Frieden E *J Chem Educ 52: 754-6, Dec 75 (Eng)* *DL/76AUG541
ADAPTATION, BIOLOGICAL; ANTIBODY SPECIFICITY; ANTIGEN-ANTIBODY REACTIONS; BIOCHEMISTRY; CARRIER PROTEINS; HEMOGLOBIN, SICKLE; IRON (blood); MODELS, CHEMICAL; PROTEIN BINDING; RECEPTORS, HORMONE; SERUM ALBUMIN; STRUCTURE-ACTIVITY RELATIONSHIP.

Friedman GD

PREDICTORS OF SUDDEN CARDIAC DEATH. Friedman GD, Klatsky AL, Siegelaub AB *Circulation 52: 164-9, Dec 75 (Eng)* *DL/76AUG656
ADULT; AGE FACTORS; AGED; BLOOD PRESSURE; BLOOD SUGAR (analysis); CALIFORNIA; CHOLESTEROL (blood); CORONARY DISEASE (diagnosis, blood, mortality); DEATH, SUDDEN; ELECTROCARDIOGRAPHY; HUMAN; LEUKOCYTE COUNT; MALE; MIDDLE AGE; MULTIPHASIC SCREENING; OBESITY (diagnosis); PROGNOSIS; RISK; SKINFOLD THICKNESS; SMOKING; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Friedmann P

THE SEQUENTIAL FEMOROPOPLITEAL BYPASS GRAFT. A FIVE YEAR EXPERIENCE. Friedmann P, DeLaurentis DA, Rhee SW *Am J Surg 131: 452-6, Apr 76 (Eng)* DL/76AUG443
AGED; ARTERIAL OCCLUSIVE DISEASES (surgery); BLOOD VESSEL PROSTHESIS; DIABETIC ANGIOPATHIES (surgery); ENDARTERECTOMY; FEMALE; FEMORAL ARTERY (surgery); GRAFT REJECTION; HUMAN; LEG (blood supply); MALE; MIDDLE AGE; POPLITEAL ARTERY (surgery); SAPHENOUS VEIN (transplantation); SEX FACTORS; TRANSPLANTATION, AUTOLOGOUS; TRANSPLANTATION, HETEROLOGOUS; VASCULAR SURGERY (methods).

Friedrichs D

STIMULATION OF RENAL GLUCONEOGENESIS BY L-ALANINE AND AIB. Friedrichs D, Schoner W *Curr Probl Clin Biochem 4: 79-84, 1975 (Eng)* *DL/76AUG493
ALANINE (pharmacodynamics); AMINOISOBUTYRIC ACID (pharmacodynamics); ANIMAL EXPERIMENTS; CARBON DIOXIDE (metabolism); FRUCTOSE (metabolism); FRUCTOSEPHOSPHATES (pharmacodynamics); GLUCONEOGENESIS (drug effects); IN VITRO; KIDNEY CORTEX (metabolism); KIDNEY TUBULES (metabolism); LACTATES (metabolism); PYRUVATE KINASE (metabolism); RATS.

Fritz SD

ENERGY METABOLISM IN SHOCK. Fritz SD *Heart Lung 4: 615-8, Jul-Aug 75 (Eng)* *DL/76AUG521
ADENOSINE TRIPHOSPHATE (metabolism); CARBOHYDRATES (metabolism); ENERGY METABOLISM; GLYCOLYSIS; HUMAN; LACTATES (metabolism); LIPIDS (metabolism); PROTEINS (metabolism); SHOCK (metabolism).

Frohman LA

SIX-MONTH FOLLOW-UP IN WEANLING RATS WITH VENTROMEDIAL AND DORSOMEDIAL HYPOTHALAMIC LESIONS: SOMATIC, ENDOCRINE, AND METABOLIC CHANGES. Bernardis LL, Goldman JK, Chlouverakis C, Frohman LA *J Neurosci Res 1: 95-108, 1975 (Eng)* DL/76AUG205

Frolich JC

INCREASED ARACHIDONATE IN LIPIDS AFTER ADMINISTRATION TO MAN: EFFECTS ON PROSTAGLANDIN BIOSYNTHESIS. Seyberth HW, Oelz O, Kennedy T, Sweetman BJ, Danon A, Frolich JC, Heimberg M, Oates JA *Clin Pharmacol Ther 18: 521-9, Nov 75 (Eng)* *DL/76AUG664

Fromantin M

[SCREENING FOR HYPERLIPEMIA IN YOUNG ADULTS] Fromantin M, Freyria J, Drieu M, Bon R *Nouv Presse Med 5: 851-2, 27 Mar 76 (Fre)* DL/76AUG295
ADULT; ATHEROSCLEROSIS (prevention & control); CHOLESTEROL (blood); DIABETES MELLITUS (occurrence); FRANCE); HUMAN; HYPERLIPEMIA (occurrence); LIPIDS (blood); MALE; MASS SCREENING; MILITARY MEDICINE; TRIGLYCERIDES (blood).

Fromter E

THE EFFECT OF INHIBITORS AND DIURETICS ON ACTIVE TRANSPORT POTENTIALS IN RAT KIDNEY PROXIMAL TUBULE. Fromter E *Curr Probl Clin Biochem 4: 119-25, 1975 (Eng)* *DL/76AUG484
ACETAZOLAMIDE (pharmacodynamics); AMILORIDE (pharmacodynamics); ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CYANIDES (pharmacodynamics); DIURETICS (pharmacodynamics); ETHACRYNIC ACID (pharmacodynamics); FUROSEMIDE (pharmacodynamics); GLUCOSE (pharmacodynamics); KIDNEY TUBULES, PROXIMAL (metabolism); MEMBRANE POTENTIALS (drug effects); OUABAIN (pharmacodynamics); POLYLYSINE (pharmacodynamics); RATS.

Frowein J

[RECEPTORS FOR POLYPEPTIDE HORMONES. PHYSIOLOGIC AND PATHOGENETIC SIGNIFICANCE] Frowein J, Petersen KG *Dtsch Med Wochenschr 101: 623-7, 16 Apr 76 (Ger)* DL/76AUG62
ADIPOSE TISSUE; ADRENAL GLANDS; CELL MEMBRANE; CORTICOTROPIN; GLUCAGON; GONADOTROPINS; HUMAN; INSULIN; LIVER; MONOCYTES; MUTATION; NEOPLASMS; OVARY; PEPTIDES; RECEPTORS, HORMONE; TESTIS; THYMUS GLAND.

Fuhrmann GF

YEAST PLASMA MEMBRANE VESICLES SUITABLE FOR TRANSPORT STUDIES. Wehrli E, Boehm C, Fuhrmann GF *J Bacteriol 124: 1594-7, Dec 75 (Eng)* *DL/76AUG525

Fujii N

STUDIES ON PEPTIDES. LII. APPLICATION OF THE TRIFLUOROMETHANESULPHONIC ACID PROCEDURE TO THE SYNTHESIS OF A PEPTIDE WITH SOMATOSTATIN ACTIVITY. Fujii N, Yajima H *Chem Pharm Bull (Tokyo) 23: 1596-603, Jul 75 (Eng)* *DL/76AUG655
METHANESULFONATES; METHODS; PEPTIDES (chemical synthesis); SOMATOTROPIN RELEASE INHIBITING HORMONE (chemical synthesis).

Fukushima N

[EFFECT OF ACUTE COLD EXPOSURE ON BLOOD COMPOSITION IN RATS TREATED WITH 6-HYDROXYDOPAMINE (AUTHORS TRANSL)] Honma K, Fukushima N, Maekubo H, Itoh S *Hokkaido J Med Sci 50: 299-303, May 75 (Jpn)* *DL/76AUG517

Fulgraff G

INTERACTION OF ETHACRYNIC ACID WITH CONTROL SITES OF RENAL GLUCOSE METABOLISM. Fulgraff G, Dingler-Nunemann H *Curr Probl Clin Biochem 4: 131-4, 1975 (Eng)* *DL/76AUG486
ACETOACETATES (metabolism); ANIMAL EXPERIMENTS; BUTYRATES (metabolism); ETHACRYNIC ACID (pharmacodynamics); GLUCOSE (metabolism); GLYCERIN (metabolism); HEXOSEDIPHOSPHATASE (metabolism); KIDNEY CORTEX (metabolism); LACTATES (metabolism); MALATES (metabolism); PHOSPHOFRUCTOKINASE (metabolism); RATS.

Furuno K

METABOLIC STUDIES ON THE DEVELOPMENT OF ETHANOL-INDUCED FATTY LIVER IN KK-AY MICE. Arakawa M, Taketomi S, Furuno K, Matsuo T, Iwatsuka H *J Nutr 105: 1500-8, Dec 75 (Eng)* *DL/76AUG549

Fussganger RD

BINDING AND DEGRADATION OF INSULIN BY HUMAN PERIPHERAL GRANULOCYTES. DEMONSTRATION OF SPECIFIC RECEPTORS WITH HIGH AFFINITY. Fussganger RD, Kahn CR, Roth J, De Meyts P *J Biol Chem 251: 2761-9, 10 May 76 (Eng)* DL/76AUG134
BINDING SITES; BINDING, COMPETITIVE; BUFFERS; GRANULOCYTES (metabolism); HUMAN; INSULIN (metabolism); KINETICS; LEUKOCYTES (metabolism); LYMPHOCYTES (metabolism); PHILIPPINES (physiology); PROTEIN BINDING; RECEPTORS, HORMONE.

Fyfe MJ

A REDUCTION IN ENERGY-DEPENDENT AMINO ACID TRANSPORT BY MICROTUBULAR INHIBITORS IN EHRLICH ASCITES TUMOR CELLS. Fyfe MJ, Loftfield S, Goldman ID *J Cell Physiol 86: 201-11, Oct 75 (Eng)* *DL/76AUG537
ALKALOIDS (pharmacodynamics); AMINOISOBUTYRIC ACID (metabolism); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CELL LINE; COLCHICINE (pharmacodynamics); DEPRESSION, CHEMICAL; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCOSE (pharmacodynamics); MICROTUBULES (drug effects); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VINCA ALKALOIDS (pharmacodynamics); VINCRISTINE (pharmacodynamics).

Fyhrquist F

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analogs & derivatives); STIMULATION, CHEMICAL.

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ADULT; BLOOD SUGAR (metabolism); EPINEPHRINE (blood); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (pharmacodynamics); HUMAN; HYDROCORTISONE (blood); INSULIN (blood); MALE; NOREPINEPHRINE (blood); SOMATOTROPIN (blood).

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ANIMAL; ATHEROSCLEROSIS (etiology); CARDIOVASCULAR DISEASES (etiology); CHOLESTEROL (blood); CORONARY DISEASE (etiology); DIET, ATHEROGENIC; DIETARY CARBOHYDRATES (adverse effects); FEMALE; HUMAN; HYPERLIPEMIA (metabolism, etiology); LIPIDS (blood); MALE; MIDDLE AGE; REVIEW; SEX FACTORS; STARCH; SUCROSE.

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ADMINISTRATION, ORAL; DIABETES MELLITUS (drug therapy); HUMAN; HYPOGLYCEMIC AGENTS (administration & dosage, therapeutic use).

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ANIMAL; GALACTOSE (pharmacodynamics); GLUCOSEPHOSPHATASE (metabolism); HEXOSEPHOSPHATES (pharmacodynamics); KINETICS; MALE; MEMBRANES (enzymology); MICROSOMES, LIVER (enzymology); PHILIPPINES; PHOSPHOMONOESTERASES (metabolism); RATS.

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ALCOHOLISM (occurrence); ANEMIA, SICKLE CELL (occurrence); ASTHMA (occurrence); DIABETES MELLITUS (occurrence); FEMALE; HOOKWORM INFECTIONS (occurrence); HUMAN; HYPERTENSION (occurrence); INTESTINAL DISEASES, PARASITIC (occurrence); MALE; MORBIDITY; MYOCARDIAL INFARCT (occurrence); PANCREATITIS (occurrence); RHEUMATIC FEVER (occurrence); STRONGYLOIDIASIS (occurrence); WEST INDIES.

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ADULT; EMERGENCIES; HUMAN; HYPOGLYCEMIA (therapy); INJECTIONS, SUBCUTANEOUS; INSULIN COMA (therapy); INSULIN (administration & dosage, analysis); MALE; SKIN (surgery); SUICIDE, ATTEMPTED.

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[CHANGES OF SERUM LIPIDS DURING PARENTERAL FEEDING WITH A 10 PERCENT OF SOY OIL SOLUTION (AUTHORS TRANSL)] Hernandez Lopez D, Rivera Hidalgo P, Guedea MS, Rivas y Rivas RM, Gutierrez Samperio C *Prensa Med Mex 40: 346-51, Nov-Dec 75 (Spa)* DL/76AUG314

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ANIMAL EXPERIMENTS (analysis); BASOPHILS (cytology, drug effects); ENGLISH ABSTRACT; ISLANDS OF LANGERHANS (cytology, drug effects); PLANT EXTRACTS (pharmacodynamics); RABBITS; TIME FACTORS; TREES.

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ADENOSINE TRIPHOSPHATE (pharmacodynamics); ADULT; AGED; ANEMIA, HEMOLYTIC, CONGENITAL NONSPHEROCYTIC (enzymology, familial & genetic); BLOOD SUGAR (metabolism); ERYTHROCYTES (metabolism, drug effects); FEMALE; FRUCTOSEPHOSPHATES (pharmacodynamics); GLUCOSEPHOSPHATE DEHYDROGENASE (blood); HEXOKINASE (blood); HEXOSEDIPHOSPHATES (blood); HUMAN; LACTATE DEHYDROGENASE (blood); MAGNESIUM (blood, pharmacodynamics); PHOSPHOFRUCTOKINASE (blood); PYRUVATE KINASE (blood, deficiency).

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ANDROSTANEDIOL (metabolism); ANDROSTENEDIONE (metabolism); ANIMAL EXPERIMENTS; BILE ACIDS AND SALTS (metabolism); CHOLESTEROL, DIETARY (metabolism); CHOLIC ACIDS (metabolism); CYTOCHROME P-450 (metabolism); DEOXYCHOLIC ACID (metabolism); GERM-FREE LIFE; LITHOCHOLIC ACID (metabolism); MICROSOMES, LIVER (metabolism); MONKEYS; STEROIDS (metabolism).

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HUMAN; IN VITRO; PITUITARY GLAND (metabolism); PITUITARY NEOPLASMS (metabolism); PROLACTIN (biosynthesis); RADIOIMMUNOASSAY; RADIOLIGAND ASSAY; SOMATOTROPIN (biosynthesis).

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ANIMAL; BLOOD SUGAR (analysis); CALCIUM (therapeutic use, blood, administration & dosage); CATTLE DISEASES (drug therapy, blood); CATTLE; CHLORIDES (blood); DEFICIENCY DISEASES (veterinary, blood, drug therapy); ENGLISH ABSTRACT; MAGNESIUM DEFICIENCY; MAGNESIUM (therapeutic use, blood, administration & dosage); PHOSPHORUS (blood).

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ADULT; AGED; BLOOD SUGAR; BODY WEIGHT; CHLORPROPAMIDE (adverse effects, therapeutic use); COMPARATIVE STUDY; DIABETES MELLITUS (drug therapy); DRUG EVALUATION; FEMALE; FOLLOW-UP STUDIES; GLIBENCLAMIDE (adverse effects, therapeutic use); HUMAN; MALE; MIDDLE AGE; TIME FACTORS.

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ADULT; AGED; CASE REPORT; CEREBROVASCULAR DISORDERS (diagnosis); COMPARATIVE STUDY; DIABETIC RETINOPATHY (diagnosis); EYE DISEASES (diagnosis); FEMALE; HUMAN; MALE; MIDDLE AGE; MYOPIA (diagnosis); PERIMETRY (methods); RETINAL DETACHMENT (diagnosis).

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AGING; ANIMAL EXPERIMENTS; ANIMALS, NEWBORN; BLOOD SUGAR (metabolism); CARBON RADIOISOTOPES; DOGS; ISOTOPE LABELING.

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DIABETES MELLITUS (blood, physiopathology); DUODENAL ULCER (blood, physiopathology); GASTRIC JUICE (secretion); GASTROINTESTINAL MOTILITY; GLUCOSE SOLUTION, HYPERTONIC; GLUCOSE TOLERANCE TEST; GLUCOSE; HUMAN; INSULIN (blood); STOMACH (physiopathology).

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HUMAN GROWTH HORMONE. Hamilton W *Scott Med J 20: 197-200, Sep 75 (Eng)* DL/76AUG339
ADOLESCENCE; CHILD; DWARFISM (blood, drug therapy); ELECTRIC STIMULATION; HUMAN; HYPOGLYCEMIA (blood); INSULIN (diagnostic use); SECRETORY RATE; SOMATOTROPIN RELEASE INHIBITING HORMONE (physiology); SOMATOTROPIN RELEASING HORMONE (physiology); SOMATOTROPIN (blood, secretion, therapeutic use).

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ADULT; BLOOD DONORS; DIABETES MELLITUS (complications, diagnosis); DIAGNOSIS, DIFFERENTIAL; FATTY LIVER (diagnosis, etiology); HUMAN; HYPERLIPEMIA (blood, complications, diagnosis); LIPIDS (blood).

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AGING; ANIMAL; CYCLOHEXIMIDE (pharmacodynamics); ELECTROPHORESIS; IN VITRO; RATS; SOMATOTROPIN (pharmacodynamics); TEMPERATURE; THYMUS GLAND (ultrastructure, drug effects, growth & development); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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CONSTANT LOW-DOSE INSULIN INFUSION IN SEVERE DIABETES MELLITUS. Hannan TJ, Stathers GM *Med J Aust 1: 11-3, 3-10Jan 76 (Eng)* DL/76AUG249
ACIDOSIS, DIABETIC (drug therapy); AGED; BLOOD SUGAR (analysis); CASE REPORT; DIABETIC COMA (blood, drug therapy); FEMALE; GLUCOSE (therapeutic use); HUMAN; HYPERNATREMIA (drug therapy); INFUSIONS, PARENTERAL; INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (blood, drug therapy); MALE; OSMOLAR CONCENTRATION.

Hansen E

A FAMILIAL SYNDROME OF PROGRESSIVE CONE DYSTROPHY, DEGENERATIVE LIVER DISEASE, ENDOCRINE DYSFUNCTION AND HEARING DEFECT. I. OPHTHALMOLOGICAL FINDINGS. Hansen E, Larsen IF, Berg K *Acta Ophthalmol (Kbh) 54: 129-44, Apr 76 (Eng)* DL/76AUG412
ADULT; BLINDNESS (familial & genetic); CHILD; COLOR PERCEPTION; DARK ADAPTATION; DEAFNESS (familial & genetic); DIABETIC RETINOPATHY (familial & genetic); ELECTRORETINOGRAPHY; ENDOCRINE DISEASES (familial & genetic); FEMALE; HUMAN; LIVER DISEASES (familial & genetic); MALE; RETINAL DEGENERATION (familial & genetic); TONOMETRY; VISION TESTS.

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LOWERING OF PLASMA CHOLESTEROL LEVELS IN FREE-LIVING ADOLESCENT MALES; USE OF NATURAL AND SYNTHETIC POLYUNSATURATED FOODS TO PROVIDE BALANCED FAT DIETS. Stein EA, Mendelsohn D, Fleming M, Barnard GD, Carter KJ, du Toit PS, Hansen JD, Bersohn I *Am J Clin Nutr 28: 1204-16, Nov 75 (Eng)* *DL/76AUG879

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THE STEADY STATE CONCENTRATIONS OF COENZYME A-SH AND COENZYME A THIOESTER, CITRATE, AND ISOCITRATE DURING TRICARBOXYLATE CYCLE OXIDATIONS IN RABBIT HEART MITOCHONDRIA. Hansford RG, Johnson RN *J Biol Chem 250: 8361-75, 10 Nov 75 (Eng)* *DL/76AUG528
ACETYL COENZYME A (metabolism); ADENOSINE DIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; CARBONYL CYANIDE P-TRIFLUOROMETHOXYPHENYLHYDRAZONE (pharmacodynamics); CITRATES (metabolism); COENZYME A (metabolism); ISOCITRATE DEHYDROGENASE (metabolism); ISOCITRATES (metabolism); KINETICS; KREBS CYCLE; LACTATE DEHYDROGENASE (metabolism); MITOCHONDRIA, MUSCLE (metabolism, drug effects); MYOCARDIUM (metabolism); NADH, NADPH OXIDOREDUCTASES (metabolism); OLIGOMYCIN (pharmacodynamics); OXYGEN CONSUMPTION; PYRUVATES (metabolism); RABBITS; SUCCINATES (metabolism).

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A HIGH INCIDENCE OF POSITIVE PROVOCATION OF PLASMA PANCREATIC ENZYMES IN THE POORLY CONTROLLED DIABETIC SUBJECTS. Harano Y, Shimizu Y, Yoshida M, Dtani N, Kim CI *Acta Diabetol Lat 12: 177-84, May-Aug 75 (Eng)* DL/76AUG399
ADULT; AGED; AMYLASE (blood); DIABETES MELLITUS (drug therapy, enzymology); FEMALE; HUMAN; INSULIN (therapeutic use); LIPASE (blood); MALE; MIDDLE AGE; PANCREOZYMIN (pharmacodynamics); SECRETIN (pharmacodynamics); TRYPSIN (blood).

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INITIAL EVENTS IN RADIATION-INDUCED ATHEROMATOSIS I. ACTIVATION OF LYSOSOMAL ENZYMES. Konings AW, Hardonk MJ, Wieringa RA, Lamberts HB *Strahlentherapie 150: 444-8, Oct 75 (Eng)* *DL/76AUG856

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THE HLA SYSTEM IN THE FAMILIES OF PATIENTS WITH JUVENILE DIABETES MELLITUS. Rubinstein P, Suciu-Foca N, Nicholson JF, Fotino M, Molinaro A, Harisiadis L, Hardy MA, Reemtsma K, Allen FH Jr *J Exp Med 143: 1277-82, 1 May 76 (Eng)* DL/76AUG192

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ADENOCARCINOMA (metabolism); ANIMAL EXPERIMENTS (analysis); BINDING SITES; BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; BLOOD SUGAR (metabolism); DIFFUSION; FEMALE; GLUCOSE (metabolism); INSULIN (blood, metabolism); KINETICS; MAMMARY NEOPLASMS, EXPERIMENTAL (metabolism); METHYLGLUCOSIDES (metabolism); NEOPLASM PROTEINS (metabolism); PROTEIN BINDING; RATS; RECEPTORS, HORMONE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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CORONARY HEART DISEASE AND ITS RISK FACTORS IN A GROUP OF 5,000 MIDDLE AGED MEN IN URBAN ENVIRONMENT. Steinbach M, Constantineanu M, Harnagea P, Theodorini S, Georgescu M, Georgescu A, Manicatide MA, Voiosu R, Cucu F, Suciu A, Chirulescu Z, Bitta R, Enculescu A, Oancea D, Popescu S, Schioiu L, Vasiliu F *Rev Roum Med [Med Intern] 14: 3-10, Jan-Mar 76 (Eng)* DL/76AUG336

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GLUCAGON AND BARIUM ENEMA EXAMINATIONS: A CONTROLLED CLINICAL TRIAL. Harned RK, Stelling CB, Williams S, Wolf GL *Am J Roentgenol 126: 981-4, May 76 (Eng)* DL/76AUG442
ADULT; BARIUM SULFATE (diagnostic use); CLINICAL RESEARCH; COLON (drug effects, radiography); ELECTROCARDIOGRAPHY; ENEMA; FEMALE; GLUCAGON (administration & dosage, adverse effects, pharmacodynamics); HUMAN; MALE; MUSCLE RELAXANTS, CENTRAL (administration & dosage); PLACEBOS; PREMEDICATION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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THE EFFECTS OF THREE VAPORIZABLE FIRE EXTINGUISHING AGENTS ON

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ADMINISTRATION, ORAL; ADRENAL CORTEX HORMONES (pharmacodynamics); ADULT; AEROSOLS; BECLOMETHASONE (pharmacodynamics, analogs & derivatives, administration & dosage); BLOOD SUGAR (analysis); CLINICAL RESEARCH; FEMALE; HUMAN; HYDROCORTISONE (blood); LEUKOCYTES (drug effects); MALE; METHYLPREDNISOLONE (analogs & derivatives); MIDDLE AGE.

PROPERTIES AND THERAPEUTIC USES OF SOME CORTICOSTEROIDS WITH ENHANCED TOPICAL POTENCY. Harris DM *J Steroid Biochem 6: 711-6, May 75 (Eng)* *DL/76AUG736
ADULT; AEROSOLS; ANTI-INFLAMMATORY AGENTS, TOPICAL; BECLOMETHASONE (pharmacodynamics, therapeutic use, analogs & derivatives); BETAMETHASONE 17-VALERATE (pharmacodynamics, therapeutic use); BETAMETHASONE (analogs & derivatives); BLOOD SUGAR (metabolism); DEXAMETHASONE ISONICOTINATE (pharmacodynamics, therapeutic use); DEXAMETHASONE (pharmacodynamics, therapeutic use, analogs & derivatives); HUMAN; HYDROCORTISONE (blood); LEUKOCYTES (drug effects).

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HISTORY OF THE TREATMENT OF RHEUMATOID ARTHRITIS. Hart FD *Br Med J 1: 763-5, 27 Mar 76 (Eng)* DL/76AUG17
ARTHRITIS, RHEUMATOID (history, therapy); CORTISONE (therapeutic use); DIET; HISTORICAL ARTICLE; HISTORY OF MEDICINE, 20TH CENT.); HUMAN; INSULIN (therapeutic use); REMISSION; SHOCK THERAPY, ELECTRIC; THERAPEUTIC CULTS.

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DEPENDENCE OF PLATELET ADENYL CYCLASE SYSTEM ON OXIDATIVE PHOSPHORYLATION. Hashimoto S, Shibata S, Kobayashi B *Thromb Diath Haemorrh 34: 42-9, 30 Sep 75 (Eng)* *DL/76AUG852
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (biosynthesis); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; AZIDES (pharmacodynamics); BLOOD PLATELETS (metabolism); CYANIDES (pharmacodynamics); DEOXYGLUCOSE (pharmacodynamics); GLYCOLYSIS (drug effects); IODOACETATES (pharmacodynamics); MITOCHONDRIA (metabolism); OXIDATIVE PHOSPHORYLATION; RABBITS; SUCCINATES (pharmacodynamics); UNCOUPLING AGENTS (pharmacodynamics); 3,5-CYCLIC AMP PHOSPHODIESTERASE (metabolism).

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ADENOSINE TRIPHOSPHATE (metabolism); ATRACTYLOSIDE (pharmacodynamics); BIOLOGICAL TRANSPORT; FATTY ACIDS, UNSATURATED (physiology); MEMBRANES (metabolism, drug effects); MITOCHONDRIA (metabolism, drug effects); NIGERICIN (pharmacodynamics); PERMEABILITY; SACCHAROMYCES CEREVISIAE (metabolism); VALINOMYCIN (pharmacodynamics).

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INHIBITION OF INSULIN RELEASE BY CYPROHEPTADINE: EFFECTS ON 3,5-CYCLIC-AMP-CONTENT AND 45CA-ACCUMULATION OF INCUBATED MOUSE ISLETS. Joost HG, Beckmann J, Lenzen S, Hasselblatt A *Acta Endocrinol (Kbh) 82: 121-6, May 76 (Eng)* DL/76AUG407

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ENERGY CONSERVATION AND UNCOUPLING IN MITOCHONDRIA. Hatefi Y *J Supramol Struct 3: 201-13, 1975 (Eng)* [29] *DL/76AUG737
ADENOSINE TRIPHOSPHATE (metabolism); BINDING SITES; BINDING, COMPETITIVE; CATTLE; CYANIDES (pharmacodynamics); DICYCLOHEXYLCARBODIIMIDE (pharmacodynamics); DINITROPHENOLS (metabolism, pharmacodynamics); MEMBRANE POTENTIALS; MEMBRANES (metabolism); MITOCHONDRIA (ultrastructure); MITOCHONDRIA, MUSCLE (metabolism, enzymology); MYOCARDIUM (metabolism); NITROPHENOLS (metabolism, pharmacodynamics); OXIDATIVE PHOSPHORYLATION; OXYGEN CONSUMPTION (drug effects); POTASSIUM (pharmacodynamics); REVIEW; SUBCELLULAR FRACTIONS (enzymology, metabolism); TIN (pharmacodynamics); UNCOUPLING AGENTS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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THE EFFECT OF PROPRANOLOL AND PHENTOLAMINE ON SERUM GASTRIN CONCENTRATION IN RESPONSE TO RESPIRATORY ACIDOSIS IN NORMAL MAN. Kaess H, Utz G, Teckentrup U, Hauck AM, Dorner M *Eur J Clin Invest 5: 401-8, 12 Sep 75 (Eng)* *DL/76AUG678

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ANIMAL EXPERIMENTS; DIAPHRAGM (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; ENERGY METABOLISM; EPINEPHRINE (pharmacodynamics, antagonists & inhibitors); GLUCOSE (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN (metabolism); LACTATES (metabolism); LITHIUM (pharmacodynamics); MAGNESIUM (pharmacodynamics); MUSCLE CONTRACTION (drug effects); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism, enzymology); RATS; STIMULATION, CHEMICAL.

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ALANINE AMINOTRANSFERASE (blood); ANIMAL EXPERIMENTS; ASPARTATE AMINOTRANSFERASE (blood); BLOOD SUGAR (analysis); BODY TEMPERATURE; BRAIN (physiopathology); CARBON DIOXIDE (blood); CHOLINESTERASES (blood); CREATINE KINASE (blood); DIPHOSPHOGLYCERIC ACIDS (blood); FEMALE; FRUCTOSEDIPHOSPHATE ALDOLASE (blood); GUINEA PIGS; HEAD INJURIES (metabolism, physiopathology, enzymology); HEART RATE; KETONE BODIES (blood); LACTATES (blood); LIPIDS (blood); MALATE DEHYDROGENASE (blood); MALE; OXYGEN (blood); PHILIPPINES; PHOSPHATES, INORGANIC (blood); PYRUVATES (blood); RESPIRATION; SHOCK, TRAUMATIC.

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HORMONAL CONTROL OF RENAL PHOSPHOENOLPYRUVATE CARBOXYKINASE ACTIVITY DURING DEVELOPMENT OF THE RAT. Hauser CA, Bailey E *Enzyme 21: 115-26, 1976 (Eng)* DL/76AUG83
AGING; ANIMAL EXPERIMENTS (analysis); CORTISONE (pharmacodynamics); DIBUTYRYL CYCLIC AMP (pharmacodynamics); FEMALE; GLUCAGON (pharmacodynamics); KIDNEY (drug effects, enzymology, growth & development); LIVER (drug effects, enzymology, growth & development); MALE; ORGAN SPECIFICITY; PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); PREGNANCY; PUROMYCIN (pharmacodynamics); RATS; SOMATOTROPIN (pharmacodynamics); THYROXINE (pharmacodynamics); TRIAMCINOLONE (pharmacodynamics).

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CHARACTERIZATION OF PROTEIN KINASES FROM BOVINE PAROTID GLANDS. THE EFFECT OF TOLBUTAMIDE AND ITS DERIVATIVE ON THESE PARTIALLY PURIFIED ENZYMES. Kanamori T, Hayakawa T, Nagatsu T *Biochim Biophys Acta 429: 147-62, 11 Mar 76 (Eng)* DL/76AUG2

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THE EFFECT ON GASTRIN SECRETION OF AGENTS WHICH INCREASE THE INTRACELLULAR CONCENTRATION OF 3,5-ADENOSINE MONOPHOSPHATE. Hayes JR, Williams RH *Endocrinology 97: 1210-4, Nov 75 (Eng)* *DL/76AUG671
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL; ARGININE (pharmacodynamics); DIBUTYRYL CYCLIC AMP (pharmacodynamics); GASTRIC MUCOSA (secretion, drug effects); GASTRIN (secretion); ISOPROTERENOL (pharmacodynamics); MALE; PERFUSION; PROSTAGLANDINS E (pharmacodynamics); RATS; THEOPHYLLINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; ANOXIA (metabolism, enzymology); CREATINE KINASE (metabolism); GLUCOSE (pharmacodynamics); GLYCERALDEHYDEPHOSPHATE DEHYDROGENASE (metabolism); GLYCOGEN (metabolism); HEART (drug effects); IN VITRO; LACTATES (metabolism); MYOCARDIUM (metabolism, enzymology); PHOSPHATES (metabolism); PHOSPHOCREATINE (metabolism); PHOSPHOTRANSFERASES (metabolism); POTASSIUM (metabolism); RATS.

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ANTHROPOMETRY; BLOOD PRESSURE DETERMINATION; GLUCOSE TOLERANCE TEST; HUMAN; HYPERTENSION (diagnosis, familial & genetic, occurrence); INSULIN (blood); LIPIDS (blood); MALE; MARRIAGE; MIDDLE AGE; SMOKING; SOCIOECONOMIC FACTORS; STRESS; URIC ACID (blood).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (urine); BLOOD SUGAR (metabolism); CHOLESTEROL (blood); CHROMIUM (urine); DIETARY CARBOHYDRATES (administration & dosage); DIETARY PROTEINS; HUMAN; MALE; PHOSPHOLIPIDS (blood); PHOSPHORUS (blood); SPORTS; TRIIODOTHYRONINE (blood); UREA (urine); URIC ACID (urine).

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ALCOHOL, ETHYL (therapeutic use); ALCOHOL, METHYL (therapeutic use); ALCOHOL, PROPYL (therapeutic use); ALCOHOLS, BUTYL (therapeutic use); ALLOXAN DIABETES (metabolism, prevention & control); ALLOXAN DIABETES (pathology); ALLOXAN (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); ISLANDS OF LANGERHANS (drug effects, metabolism, pathology); MALE; MICE; THIOUREA (pharmacodynamics); UREA (pharmacodynamics).

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STUDIES ON PLASMA FREE-FATTY-ACID METABOLISM AND TRIGLYCERIDE SYNTHESIS OF BROWN ADIPOSE TISSUE IN VIVO DURING COLD-INDUCED THERMOGENESIS OF THE NEWBORN RABBIT. Schenk H, Heim T, Mende T, Varga F, Goetze E *Eur J Biochem 58: 15 22, 1 Oct 75 (Eng)* *DL/76AUG675

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INCREASED ARACHIDONATE IN LIPIDS AFTER ADMINISTRATION TO MAN: EFFECTS ON PROSTAGLANDIN BIOSYNTHESIS. Seyberth HW, Oelz O, Kennedy T, Sweetman BJ, Danon A, Frolich JC, Heimberg M, Oates JA *Clin Pharmacol Ther 18: 521-9, Nov 75 (Eng)* *DL/76AUG664

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ANIMAL EXPERIMENTS (analysis); CALCIUM (pharmacodynamics); DINITROPHENOLS (pharmacodynamics); EPINEPHRINE (pharmacodynamics); FEMALE; INSULIN (metabolism); ISLANDS OF LANGERHANS (drug effects, metabolism); MICE; MICE, OBESE; XANTHINES (pharmacodynamics).

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ACETYLGALACTOSAMINE (analogs & derivatives, pharmacodynamics); ACETYLGLUCOSAMINE (analogs & derivatives,

pharmacodynamics); ANIMAL EXPERIMENTS (analysis); DOSEgRESPONSE RELATIONSHIP, DRUG); GLUCOSE (pharmacodynamics); HEXOSAMINES (pharmacodynamics); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism); MICE; MICE, OBESE.

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ADOLESCENCE; ADULT; AGE FACTORS; CHILD; DIABETES MELLITUS; DIABETES MELLITUS, JUVENILE; DIABETIC RETINOPATHY; FLUORESCENCE; HUMAN; LENS, CRYSTALLINE.

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ANIMAL; AORTA, THORACIC (enzymology); CATTLE; COLLAGEN; GALACTOSE; GLUCOSYLTRANSFERASES (isolation & purification, metabolism); HYDROXYLYSINE; KINETICS; PHILIPPINES; URIDINE DIPHOSPHATE GLUCOSE.

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ADVANCES IN DIABETES. Henry WL *J Natl Med Assoc 68: 145-7, Mar 76 (Eng)* DL/76AUG204

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BODY WEIGHT; COMPARATIVE STUDY; EMULSIONS; ENGLISH ABSTRACT; FATS (metabolism); GLUCOSE (metabolism); HEPARIN (metabolism); HUMAN; INSULIN (metabolism); LIPIDS (blood, metabolism); PARENTERAL FEEDING; SOY BEANS.

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AORTA (surgery); ATHEROSCLEROSIS (surgery); DIABETIC ANGIOPATHIES (surgery); ENDARTERECTOMY; FEMORAL ARTERY (surgery); HUMAN; LEG (blood supply); POPLITEAL ARTERY (surgery); VASCULAR SURGERY (methods).

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BREAST NEOPLASMS (pathology); CARCINOMA (pathology); CARCINOMA, COLLOID (pathology); CARCINOMA, DUCTAL (pathology); CARCINOMA, PAPILLARY (pathology); CARCINOMA, SCIRRHOUS (pathology); CELL SURVIVAL (drug effects); CLOSTRIDIOPEPTIDASE A (pharmacodynamics); DRUG INTERACTIONS; ESTRADIOL (pharmacodynamics); ESTROGENS (metabolism); FEMALE; HORMONES (pharmacodynamics); HUMAN; HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); MALE; MENOPAUSE; MONOGRAPH (mortality); ORGAN CULTURE; PROLACTIN (pharmacodynamics); RECEPTORS, HORMONE.

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CARDIOVASCULAR DISEASES (mortality); DIABETES MELLITUS (complications, drug therapy); DIABETIC ANGIOPATHIES (mortality); FEMALE; HEART DISEASES (complications); HEART FAILURE, CONGESTIVE (complications); HUMAN; HYPERCHOLESTEREMIA (complications); HYPERTENSION (complications); HYPOGLYCEMIC AGENTS (therapeutic use); INSULIN (therapeutic use); MALE; OBESITY (complications); PANCREATIC NEOPLASMS (complications); SEX FACTORS.

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ANIMAL; AQUEOUS HUMOR (metabolism); BLOOD SUGAR (metabolism); CHLORIDES (metabolism); GLUCOSE (metabolism); MACACA (metabolism); POTASSIUM (metabolism); RHESUS MONKEYS (metabolism); SODIUM (metabolism).

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IN VITRO INFLUENCE OF STEROIDAL HORMONES ON PROTEIN AND GLUCOSE METABOLISM OF ISOLATED GRANULOMATOUS TISSUE CELLS. Hikawyj I, Nocenti MR *Arch Int Pharmacodyn Ther 217: 86-96, Sep 75 (Eng)* *DL/76AUG900

ANIMAL; CHOLESTEROL (pharmacodynamics); DESOXYCORTICOSTERONE (pharmacodynamics); DIMETHYL SULFOXIDE (pharmacodynamics); GLUCOSE (metabolism); GLYCINE (metabolism); GRANULOMA (metabolism, pathology); LEUKOCYTES (metabolism); LYMPHOCYTES (metabolism); MACROPHAGES (metabolism); MALE; METHYLPREDNISOLONE (pharmacodynamics); MONOCYTES (metabolism); OXIDATION-REDUCTION; PROTEINS (metabolism, biosynthesis); RATS; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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BLOOD PRESSURE; BLOOD SUGAR; CARDIAC OUTPUT; ELECTROCARDIOGRAPHY; FEMALE; HEART CATHETERIZATION; HEART VALVE DISEASES (diagnosis); HEART VENTRICLE (drug effects); HEMODYNAMICS; HUMAN; INSULIN (blood); MALE; MIDDLE AGE; MYOCARDIAL CONTRACTION (drug effects); POTASSIUM (blood); STIMULATION, CHEMICAL; TOLBUTAMIDE (blood, pharmacodynamics).

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ADULT; CHOLESTEROL (blood); CHOLESTEROL, DIETARY; DIETARY FATS; ENERGY METABOLISM; FATS, UNSATURATED (pharmacodynamics); FATTY ACIDS (metabolism); FEMALE; HUMAN; MALE; PHOSPHOLIPIDS (blood); SEX FACTORS; TRIGLYCERIDES (blood).

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EPIDEMIOLOGICAL AND CLINCOPATHOLOGICAL STUDY ON RENAL DISEASES OBSERVED IN THE AUTOPSY CASES IN HISAYAMA POPULATION, KYUSHU ISLAND, JAPAN. Ueda K, Omae T, Hirota Y, Takeshita M, Hiyoshi Y *J Chronic Dis 29: 159-73, Mar 76 (Eng)* DL/76AUG139

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EFFECTS OF DIET AND COLD ACCLIMATION ON LIPID COMPOSITION OF RAT INTERSCAPULAR BROWN ADIPOSE TISSUE. Senault C, Hlusko MT, Portet R *Ann Nutr Aliment 29: 67-77, 1975 (Eng)* *DL/76AUG891

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AGED; CHOROID NEOPLASMS (diagnosis); CHOROID; DIABETIC RETINOPATHY (diagnosis); EYE DISEASES (diagnosis); EYE FOREIGN BODIES (diagnosis); EYE NEOPLASMS (diagnosis); FEMALE; GOITER, EXOPHTHALMIC (diagnosis); HUMAN; MACULAR DEGENERATION (diagnosis); MALE; MELANOMA (diagnosis); RETINAL DETACHMENT (diagnosis); RETINAL HEMORRHAGE (diagnosis); TOMOGRAPHY, RADIOGRAPHIC; ULTRASONICS (diagnostic use); VITREOUS BODY.

Hoebel BG

FEEDING: NEURAL CONTROL OF INTAKE. Hoebel BG *Annu Rev Physiol 33: 533-68, 1971 (Eng) [221]* *DL/76AUG894
AMYGDALOID BODY (physiology); ANIMAL; APHAGIA (physiopathology); APPETITE DISORDERS (physiopathology); APPETITE REGULATION; APPETITIVE BEHAVIOR; BLOOD SUGAR; BODY TEMPERATURE REGULATION; BODY WEIGHT; BRAIN (physiology); DRINKING BEHAVIOR (physiology); ELECTRIC STIMULATION; FEEDING BEHAVIOR (physiology); FRONTAL LOBE (physiology); GLUCOSE (metabolism); HIPPOCAMPUS (physiology); HUMAN; HYPOTHALAMUS (physiology); MOTOR ACTIVITY; NEURONS (physiology); RECEPTORS, ADRENERGIC; RECEPTORS, DRUG; REINFORCEMENT (PSYCHOLOGY); REVIEW; REWARD; SATIETY RESPONSE; SELF STIMULATION; SYMPATHETIC NERVOUS SYSTEM (physiology); TASTE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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AGED; CAROTENOIDS (blood); CHOLESTEROL (blood); DIABETES MELLITUS (complications, diagnosis); DIETARY FATS (adverse effects); FEMALE; HUMAN; LIPIDS (blood); MALE; MIDDLE AGE; MYOCARDIAL INFARCT (complications); PIGMENTATION DISORDERS (etiology); SKIN MANIFESTATIONS; SKIN PIGMENTATION.

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[STUDIES ON THE EFFECT OF RADIATION ON ELECTROLYTE CHANGES AND METABOLISM OF THE MYOCARDIUM. V. CHANGES IN ENZYME ACTIVITIES AND GLYCOLYSIS METABLOITES DUE TO RADIATION] Prignitz R, Hoffmeister N, Hoffmeister G *Strahlentherapie 149: 621-7, Jun 75 (Ger)* *DL/76AUG854

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GLUCONEOGENESIS IN ISOLATED NEPHRON SEGMENTS OF THE RABBIT. Hohmann B, Scharer K *Curr Probl Clin Biochem 4: 47-50, 1975 (Eng)* *DL/76AUG491
ANIMAL EXPERIMENTS; GLUCONEOGENESIS; GLUCOSE (biosynthesis); KIDNEY TUBULES, PROXIMAL (metabolism); LACTATES (metabolism); MALE; PYRUVATES (metabolism); RABBITS; STARVATION.

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[THE DECENTRALIZED COMPUTER SYSTEM IN THE HAMBURG-EPPENDORF UNIVERSITY HOSPITAL (AUTHORS TRANSL)] Hohne KH *Munch Med Wochenschr 117: 1769-74, 31 Oct 75 (Ger)* *DL/76AUG750
BLOOD SUGAR (analysis); BRAIN DEATH; BRAIN NEOPLASMS (diagnosis); COMPUTERS; DATA DISPLAY; DIAGNOSIS, COMPUTER ASSISTED; ENGLISH ABSTRACT; GERMANY, WEST; HOSPITAL COMMUNICATION SYSTEMS; HUMAN; INFORMATION RETRIEVAL SYSTEMS; MEDICAL RECORDS; NUCLEAR MEDICINE; RADIOISOTOPE SCANNING; SYSTEMS ANALYSIS.

Hokfelt T

[SOMATOSTATIN AND SOMATOMEDINS--NEW HORMONES WITH CONNECTION TO DIABETES RESEARCH AND FUTURE DIABETES THERAPY] Efendic S, Hall K, Hokfelt T, Luft R *Lakartidningen 13: 1198-202, 24 Mar 76 (Swe)* DL/76AUG227

Hokin LE

PURIFICATION AND MOLECULAR PROPERTIES OF THE (SODIUM & POTASSIUM)-ADENOSINETRIPHOSPHATASE AND RECONSTITUTION OF COUPLED SODIUM AND POTASSIUM TRANSPORT IN PHOSPHOLIPID VESICLES CONTAINING PURIFIED ENZYME. Hokin LE *J Exp Zool 194: 197-205, Oct 75 (Eng) [56]* *DL/76AUG547
ADENOSINE TRIPHOSPHATASE (isolation & purification, metabolism, analysis); ADENOSINE TRIPHOSPHATE (metabolism); AMINO ACIDS (analysis); ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE; DOGFISH; EELS; ELECTRIC ORGAN (enzymology); GLYCOPROTEINS (analysis); MAGNESIUM (metabolism); MOLECULAR WEIGHT; OUABAIN (pharmacodynamics); PHOSPHOLIPIDS (metabolism); POTASSIUM (metabolism); RECTUM (enzymology); REVIEW; SODIUM (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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[RECURRENT ULCER FOLLOWING VAGOTOMY: COMPLETION OF VAGOTOMY OR RESECTION (AUTHORS TRANSL)] Bauer H, Holle F *Munch Med Wochenschr 118: 453-6, 9 Apr 76 (Ger)* DL/76AUG260

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[A MICROMETHOD FOR THE DETERMINATION OF GLUCOSE IN 20 MICROLITER SAMPLES WITH THE AUTOANALYZER (AUTHORS TRANSL)] Holm H, Pianezzi A, Scholer A *Z Klin Chem Klin Biochem 13: 541-3, Dec 75 (Ger)* *DL/76AUG594
AUTOANALYSIS (methods); BLOOD SUGAR (analysis); COMPARATIVE STUDY; ENGLISH ABSTRACT; GLUCOSE (analysis); GLUCOSEPHOSPHATE DEHYDROGENASE; HEXOKINASE; MICROCHEMISTRY (methods).

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ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; DIBUTYRYL CYCLIC AMP (pharmacodynamics); GALACTOSE (metabolism); GASTRIC MUCOSA (metabolism, drug effects); ILEUM (metabolism, drug effects); KINETICS; MATHEMATICS; PERMEABILITY; POTASSIUM (metabolism); RABBITS; SODIUM (pharmacodynamics, metabolism); THEOPHYLLINE (pharmacodynamics).

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BLOOD SUGAR; BODY WEIGHT; CARBON DIOXIDE (metabolism); GLUCONEOGENESIS; GLUCOSE (metabolism); HUMAN; LACTATES (blood); NEOPLASM METASTASIS (metabolism); NEOPLASMS (metabolism); OXIDATION-REDUCTION; OXYGEN CONSUMPTION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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ANIMAL EXPERIMENTS (analysis); ENERGY METABOLISM; FATTY ACIDS (analysis); FETUS (metabolism); GLUCOSE (pharmacodynamics); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOLYSIS; INSULIN (pharmacodynamics); LIVER GLYCOGEN (metabolism); LIVER (enzymology, metabolism); MEMBRANES (metabolism); MITOCHONDRIA, LIVER (enzymology, metabolism); MONOGRAPH (mortality); PHOSPHATES, INORGANIC (metabolism); PYRUVATE DEHYDROGENASE COMPLEX (metabolism); RATS; REVIEW.

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CHANGES IN ADENYLATE ENERGY CHARGE OF THE LIVER AFTER AN ORAL GLUCOSE LOAD. Kimura K, Kamiyama Y, Ozawa K, Honjo I *Gastroenterology 70: 665-8, May 76 (Eng)* DL/76AUG100

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[EFFECT OF ACUTE COLD EXPOSURE ON BLOOD COMPOSITION IN RATS TREATED WITH 6-HYDROXYDOPAMINE (AUTHORS TRANSL)] Honma K, Fukushima N, Maekubo H, Itoh S *Hokkaido J Med Sci 50: 299-303, May 75 (Jpn)* *DL/76AUG517
ADRENAL MEDULLA (drug effects); ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); COLD; ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); HYDROXYBUTYRATES (metabolism); HYDROXYDOPAMINE (pharmacodynamics, administration & dosage); LACTATES (blood); MALE; PHYSICAL STIMULATION; RATS.

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THE CONTROL OF HYPERTENSION, ATHEROSCLEROTIC DISEASES, AND DIABETES IN A FAMILY PRACTICE. Kark SL, Kark E, Hopp C, Abramson JH, Epstein LM, Ronen I *J R Coll Gen Pract 26: 157-69, Mar 76 (Eng)* DL/76AUG202

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JUVENILE DIABETES AND HUMAN SPERM QUALITY. Bartak V, Josifko M, Horackova M *Int J Fertil 20: 30-2, 1975 (Eng)* DL/76AUG123

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[LETTER: HL-A GROUPS IN JUVENILE DIABETES] Cathelineau G, Cathelineau L, Hors J, Schmid M, Dausset J *Nouv Presse Med 5: 586, 28 Feb 76 (Fre)* DL/76AUG299

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THE EFFECTS OF THREE VAPORIZABLE FIRE EXTINGUISHING AGENTS ON MYOCARDIAL METABOLISM AND CARDIOVASCULAR DYNAMICS IN THE ANESTHETIZED DOG. Van Stee EW, Harris AM, Horton ML, Back KC *Toxicol Appl Pharmacol 34: 62-71, Oct 75 (Eng)* *DL/76AUG588

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ADENOMA, CHROMOPHOBE (pathology); ADENOMA, EOSINOPHILIC (pathology); AMENORRHEA (pathology); CYTOPLASM (ultrastructure); DIABETIC RETINOPATHY (pathology); FEMALE; GLUCOCORTICOIDS (pharmacodynamics); HUMAN; MICROTUBULES (ultrastructure); MONOGRAPH (mortality); PITUITARY GLAND (drug effects, ultrastructure); PITUITARY NEOPLASMS (pathology).

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BAROREFLEX SENSITIVITY AND RESPONSES TO THE VALSALVA MANOEUVRE IN SUBJECTS WITH DIABETES MELLITUS. Bennett T, Hosking DJ, Hampton JR *J Neurol Neurosurg Psychiatry 39: 178-83, Feb 76 (Eng)* DL/76AUG194

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GLUCOPRIVIC (2DG) EATING IN RATS DESPITE KNIFE CUT INDUCED HYPERPHAGIA Houpt KA, Gold RM *Pharmacol Biochem Behav 3: 583-8, Jul-Aug 75 (Eng)* *DL/76AUG781
ANIMAL; BLOOD SUGAR (metabolism); DEOXY SUGARS (pharmacodynamics); DEOXYGLUCOSE (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; FEEDING BEHAVIOR (physiology, drug effects); FEMALE; HYPOTHALAMUS (physiology); RATS; SODIUM CHLORIDE (administration & dosage); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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ASCORBIC ACID AND ATHLETIC PERFORMANCE. Howald H, Segesser B, Korner WF *Ann NY Acad Sci 258: 458-64, 30 Sep 75 (Eng)* *DL/76AUG613
ADULT; ASCORBIC ACID (pharmacodynamics, administration & dosage); BLOOD SUGAR (metabolism); BODY HEIGHT; BODY SURFACE AREA; BODY WEIGHT; EXERTION (drug effects); FATTY ACIDS, NONESTERIFIED (metabolism); HEART RATE (drug effects); HUMAN; MUSCLES (metabolism); NUTRITIONAL REQUIREMENTS; OXYGEN CONSUMPTION; PLACEBOS; SPORT MEDICINE; VANILMANDELIC ACID (urine).

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HEMODYNAMIC AND METABOLIC ALTERATIONS IN PERIPHERAL TISSUE DURING HEMORRHAGIC SHOCK. Shearburn EW 3d, Craig WD, Maitland CL, Howard PL, McCoy S, Drucker WR *Am Surg 41: 696-703, Nov 75 (Eng)* *DL/76AUG890

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THIAMINE TRANSPORT ACROSS THE RAT INTESTINE. II. EFFECT OF ETHANOL. Hoyumpa AM Jr, Breen KJ, Schenker S, Wilson FA *J Lab Clin Med 86: 803-16, Nov 75 (Eng)* *DL/76AUG721
ALCOHOL, ETHYL (pharmacodynamics, blood, analysis); ANIMAL; DUODENUM (metabolism, analysis); FEMALE; GLUCOSE (metabolism, administration & dosage); INTESTINAL ABSORPTION (drug effects); INTESTINES (pathology); JEJUNUM (metabolism); OSMOLAR CONCENTRATION; OUABAIN (pharmacodynamics); RATS; SODIUM CHLORIDE (metabolism, administration & dosage); THIAMINE (metabolism, analysis); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

Hsie AW

PROSTAGLANDIN E1 INDUCED CHANGES IN CYCLIC AMP LEVELS IN WI-38 HUMAN FIBROBLASTS. TWO DIFFERENT EFFECTS OF CELL DENSITY. ONeill JP, Hsie AW *Biochim Biophys Acta 404: 243-8, 9 Oct 75 (Eng)* *DL/76AUG628

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ADULT; AGED; ARGON; CASE REPORT; DIABETIC RETINOPATHY (surgery); FEMALE; FUNDUS OCULI; HUMAN; LASER COAGULATION (methods); MALE; MIDDLE AGE; POSTOPERATIVE COMPLICATIONS; RETINA (surgery); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); XENON.

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THE PYRUVATE DEHYDROGENASE MULTIENZYME COMPLEX. Hucho F *Angew Chem [Engl] 14: 591-601, Sep 75 (Eng) [135]* *DL/76AUG887
CATALYSIS; CHROMOSOMES, BACTERIAL; ENERGY METABOLISM (drug effects); ESCHERICHIA COLI (enzymology); FEEDBACK; GLUCONEOGENESIS (drug effects); MICROSCOPY, ELECTRON; MOLECULAR WEIGHT; PYRUVATE DEHYDROGENASE COMPLEX (metabolism); PYRUVATES (metabolism); REVIEW.

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TRANSFER OF FATTY ACIDS ACROSS THE RABBIT PLACENTA. Elphick MC, Hudson DG,

224-816 O - 76 - 13

Jenkins DJ

LETTER: METABOLIC EFFECTS OF BRAN. Leeds A, Gassull MA, Jenkins DJ, Alberti KG *Br Med J 1: 900-1, 10 Apr 76 (Eng)* DL/76AUG22

LETTER: FOOD: INFLUENCE OF FORM ON ABSORPTION. Leeds AR, Gassull MA, Metz GL, Jenkins DJ *Lancet 2: 1213, 13 Dec 75 (Eng)* *DL/76AUG570

Jenkins ST

LETTER: ACUTE DIABETIC ABDOMEN. Jenkins ST *Lancet 1: 963, 1 May 76 (Eng)* DL/76AUG229
ABDOMEN, ACUTE (etiology); DEHYDRATION (complications); DIABETES MELLITUS (complications); HUMAN; TONGUE.

Jennings RB

EFFECTS OF DEXTROTHYROXINE ON HYPERLIPIDEMIA AND EXPERIMENTAL ATHEROSCLEROSIS IN BEAGLE DOGS. Nandan R, Fisher JD, Towery EP, Brown DR, Ganote E, Jennings RB *Atherosclerosis 22: 299-311, Sep-Oct 75 (Eng)* *DL/76AUG924

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[EVALUATION BY MULTIPLE REGRESSION ANALYSIS OF THE CLINICAL CHARACTERISTICS OF A SAMPLE OF ADULT-ONSET DIABETICS] Jequier JC, Gagnon MA, Annable L *Union Med Can 104: 935-43, Jun 75 (Fre)* DL/76AUG355
DIABETES MELLITUS (diagnosis); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; REGRESSION ANALYSIS; STATISTICS.

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INCREASING THE SENSITIVITY OF THE ANTHRONE METHOD FOR CARBOHYDRATE. Jermyn MA *Anal Biochem 68: 332-5, Sep 75 (Eng)* *DL/76AUG885
FRUCTOSE (analysis); GLUCOSE (analysis); HEAT; INDICATORS AND REAGENTS; MICROCHEMISTRY; SPECTROPHOTOMETRY (methods); SPECTROPHOTOMETRY, ULTRAVIOLET (methods).

Jeschke J

[PLASMATIC IMMUNOREACTIVE INSULIN IN TRAINED ATHLETES] Karlicek V, Topolcan O, Jeschke J *Cas Lek Cesk 115: 324-6, 19 Mar 76 (Cze)* DL/76AUG26

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HABITUAL EXERCISERS: A BLOOD SERUM AND PERSONALITY PROFILE. Jette M *J Sports Med 3: 12-7, Jan-Feb 75 (Eng)* *DL/76AUG561
ALKALINE PHOSPHATASE (blood); BILIRUBIN (blood); BLOOD CHEMICAL ANALYSIS; BLOOD SUGAR; CHOLESTEROL (blood); HUMAN; MALE; PERSONALITY ASSESSMENT; PHYSICAL EDUCATION AND TRAINING; SERUM ALBUMIN (analysis); URIC ACID (blood).

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FATAL FULMINATING DIABETES MELLITUS. Jewett JF *N Engl J Med 294: 1289-90, 3 Jun 76 (Eng)* DL/76AUG269
ABORTION, THREATENED (mortality); ACIDOSIS, DIABETIC; ADULT; BRONCHOPNEUMONIA; CASE REPORT; FEMALE; HUMAN; INSULIN ANTIBODIES (analysis); INSULIN RESISTANCE; INSULIN (therapeutic use); KETOSIS, DIABETIC (drug therapy, mortality); POTASSIUM (blood); PREGNANCY IN DIABETES (mortality); PREGNANCY; TIME FACTORS; VENTRICULAR FIBRILLATION.

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EFFECT OF FASTING AND INSULIN ON THE GLUCAGON-INDUCED ORTHOPHOSPHATE INCORPORATION TO THE ISOLATED PERFUSED RAT LIVER. De Venanzi F, Pena F, Jimenez O, De Alvarado H *Proc Soc Exp Biol Med 152: 47-51, May 76 (Eng)* DL/76AUG323

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EFFECT OF THERMAL STRESS AND DEHYDRATION ON PLASMA LEVELS OF GLUCOSE, FREE FATTY ACIDS AND GROWTH HORMONE IN THE PIGEON. John TM, Mckeown BA, George JC *Arch Int Physiol Biochim 83: 303-8, May 75 (Eng)* *DL/76AUG615
ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); DEHYDRATION; FATTY ACIDS, NONESTERIFIED (blood); HEAT; HEMATOCRIT; MALE; PIGEONS; SOMATOTROPIN (blood); STRESS (blood).

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A DISTRIBUTED PORE SIZE MODEL FOR CAPILLARIES. Johnson JA, Levitt DG, Wangensteen OD, Bloom G *Microvasc Res 10: 217-9, Sep 75 (Eng)* *DL/76AUG747
CAPILLARIES (ultrastructure, physiology); HUMAN; MODELS, BIOLOGICAL.

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THE STEADY STATE CONCENTRATIONS OF COENZYME A-SH AND COENZYME A THIOESTER, CITRATE, AND ISOCITRATE DURING TRICARBOXYLATE CYCLE OXIDATIONS IN RABBIT HEART MITOCHONDRIA. Hansford RG, Johnson RN *J Biol Chem 250: 8361-75, 10 Nov 75 (Eng)* *DL/76AUG528

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INCREASE IN PLASMA GROWTH HORMONE CONCENTRATION: A NEW EFFECT OF HELIUM BREATHING. Raymond L, Sode J, Langworthy HC, Blosser J, Johnsonbaugh RE *Undersea Biomed Res 1: 91-8, Mar 74 (Eng)* *DL/76AUG590

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D-GLUCOSE PERMEABILITY OF BLACK LIPID MEMBRANES MODIFIED BY HUMAN ERYTHROCYTE MEMBRANE FRACTIONS. Lidgard GP, Jones MN *J Membr Biol 21: 1-10, 23 Apr 75 (Eng)* *DL/76AUG556

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[EXPERIENCES FROM INTENSIVE MEDICAL CARE AT THE SAHLGRENSKA HOSPITAL] Bunketorp O, Jonsson D, Stakeberg H *Lakartidningen 73: 1720-2, 28 Apr 76 (Swe)* DL/76AUG228

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); CALCIUM RADIOISOTOPES (metabolism); CYPROHEPTADINE (pharmacodynamics); GLUCOSE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (metabolism, secretion); MICE; MICE, OBESE; THEOPHYLLINE (pharmacodynamics).

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[MACROLID ANTIBIOTICS AND ADRENALIN-INDUCED HYPERGLYCEMIA] Hugues FC, Julien D *Therapie 30: 455-7, May-Jun 75 (Fre)* DL/76AUG352

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EFFECT OF ELECTROCONVULSIVE THERAPY WITHOUT ANTICONVULSIVE PREMEDICATION ON SERUM GROWTH HORMONE IN MAN. Vigas M, Stowasserova N, Nemeth S, Jurcovicova J *Horm Res 6: 65-70, 1975 (Eng)* *DL/76AUG691

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AEROBIOSIS; ALANINE (pharmacodynamics, analogs & derivatives); AMINO ACIDS (metabolism); ANAEROBIOSIS; BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE (metabolism, drug effects); ESCHERICHIA COLI (metabolism, drug effects); KINETICS; METHYLGLUCOSIDES (metabolism); PYRUVATES (pharmacodynamics); STEREOISOMERS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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ROLE OF CYCLIC GMP AS A MEDIATOR OF THE NEGATIVE INOTROPIC EFFECT OF ACETYLCHOLINE IN THE PERFUSED RAT HEART. George WJ, Kadowitz PJ, Wilkerson RD *Recent Adv Stud Cardiac Struct Metab 3: 331-9, 1973 (Eng)* *DL/76AUG799

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THE EFFECT OF PROPRANOLOL AND PHENTOLAMINE ON SERUM GASTRIN CONCENTRATION IN RESPONSE TO RESPIRATORY ACIDOSIS IN NORMAL MAN. Kaess H, Utz G, Teckentrup U, Hauck AM, Dorner M *Eur J Clin Invest 5: 401-8, 12 Sep 75 (Eng)* *DL/76AUG678

ACIDOSIS, RESPIRATORY (blood, physiopathology); ADULT; BLOOD SUGAR (analysis); CARBON DIOXIDE (blood); CLINICAL RESEARCH; FATTY ACIDS, NONESTERIFIED (blood); GASTRIN (blood); HUMAN; MALE; PHENTOLAMINE (pharmacodynamics); PHILIPPINES; PROPRANOLOL (pharmacodynamics).

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EPIDEMIOLOGIC STUDIES OF CORONARY HEART DISEASE AND STROKE IN JAPANESE MEN LIVING IN JAPAN, HAWAII AND CALIFORNIA: DISTRIBUTION OF BIOCHEMICAL RISK FACTORS. Nichaman MZ, Hamilton HB, Kagan A, Grier T, Sacks T, Syme SL *Am J Epidemiol 102: 491-501, Dec 75 (Eng)* *DL/76AUG607

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ANTICOAGULANTS; BLOOD PRESSURE (drug effects); BLOOD SUGAR; DRUG ANTAGONISM; DRUG INTERACTIONS; DRUGS (administration & dosage, metabolism); HUMAN; HYPOGLYCEMIC AGENTS (pharmacodynamics); INTESTINAL ABSORPTION (drug effects); KIDNEY (metabolism).

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[GLUCAGON, STOMACH AND PANCREAS] Kalinin AP, Radbil OS *Sov Med 43-9, Dec 75 (Rus) [82]* DL/76AUG343

ANIMAL EXPERIMENTS (analysis); DOGS; GASTRIC JUICE (secretion); GASTRIC MUCOSA (secretion); GASTRIN (secretion); GASTROINTESTINAL HORMONES (physiology); GLUCAGON (physiology, secretion, therapeutic use); HUMAN; HYPERGLYCEMIA (etiology); ISLANDS OF LANGERHANS (secretion); PANCREAS (secretion); PANCREATITIS (drug therapy); PEPTIC ULCER (drug therapy); REVIEW; SECRETIN (physiology, secretion).

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ADIPOSE TISSUE (metabolism); BODY WEIGHT; CHOLESTEROL (blood); FASTING; FATTY ACIDS (metabolism, blood, analysis); HUMAN; ILEOSTOMY; JEJUNUM (surgery); OBESITY (surgery); SERUM ALBUMIN (metabolism); TRIGLYCERIDES (blood, metabolism, analysis).

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BIOLOGICAL TRANSPORT (drug effects); CELL DIVISION (drug effects); CELL LINE; DNA (biosynthesis); FIBROBLASTS (drug effects, metabolism); GLUTAMINE (metabolism); GROWTH SUBSTANCES (pharmacodynamics); HISTIDINE (metabolism); INSULIN (pharmacodynamics); LEUCINE (metabolism); METHIONINE (metabolism); PHOSPHATES (metabolism).

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EFFECTS OF MALEATE ON RENAL CARBOHYDRATE METABOLISM IN VIVO AND IN VITRO. Rogulski J, Strzelecki T, Pacanis A, Kaminska E, Angielski S *Curr Probl Clin Biochem 4: 106-10, 1975 (Eng)* *DL/76AUG483

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); CATTLE; ENZYME ACTIVATION (drug effects); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); GUANOSINE TRIPHOSPHATE (pharmacodynamics); KINETICS; PAROTID GLAND (drug effects, enzymology); PHILIPPINES (physiology); POTASSIUM CHLORIDE (pharmacodynamics); PROTEIN KINASE (isolation & purification, metabolism); SODIUM CHLORIDE (pharmacodynamics); TOLBUTAMIDE (analogs & derivatives, pharmacodynamics).

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DETERMINANTS OF THE FORMATION AND ACTIVITY OF FACTOR V-PHOSPHOLIPID COMPLEXES. I. INFLUENCE OF PHOSPHOLIPID STRUCTURE. Kandall CL, Shohet SB, Akinbami TK, Colman RW *Thromb Diath Haemorrh 34: 256-70, 30 Sep 75 (Eng)* *DL/76AUG849

CARDIOLIPINS (pharmacodynamics); CATTLE; CHOLESTEROL (analysis); ENZYME ACTIVATION; FACTOR V (analysis, isolation & purification, metabolism); FATTY ACIDS (analysis); FATTY ACIDS, UNSATURATED (analysis); LIPOPROTEINS (analysis); MICELLES; MOLECULAR CONFORMATION; PHOSPHATIDYL CHOLINE (pharmacodynamics); PHOSPHATIDYL ETHANOLAMINE (pharmacodynamics); PHOSPHATIDYL INOSITOL (pharmacodynamics); PHOSPHATIDYL SERINE (pharmacodynamics); PHOSPHOLIPIDS (analysis, pharmacodynamics); PROTEIN BINDING; PROTHROMBIN (metabolism); THROMBIN (biosynthesis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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POLYAMINE TRANSPORT AND METABOLISM IN MOUSE MAMMARY GLAND. GENERAL PROPERTIES AND HORMONAL REGULATION. Kano K, Oka T *J Biol Chem 251: 2795-800, 10 May 76 (Eng)* DL/76AUG135

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT, ACTIVE; CELLS, CULTURED; FEMALE; INSULIN (pharmacodynamics); KINETICS; MAMMAE (drug effects, metabolism); MICE; POLYAMINES (metabolism); PREGNANCY; PROLACTIN (pharmacodynamics); PUTRESCINE (metabolism); SPERMIDINE (metabolism); SPERMINE (metabolism); TEMPERATURE.

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FREE AND TOTAL INSULIN LEVELS IN A PATIENT WITH INSULIN-RESISTANT DIABETES MELLITUS AND CHRONIC LYMPHATIC LEUKEMIA: EFFECT OF PREDNISONE THERAPY. Kansal PC, Stroud RM, Boshell BR *Metabolism 25: 445-53, Apr 76 (Eng)* DL/76AUG244

ADOLESCENCE; ADULT; AGED; CASE REPORT; DIABETES MELLITUS (complications, drug therapy, immunology); HUMAN; INSULIN ANTIBODIES; INSULIN RESISTANCE; INSULIN (metabolism, therapeutic use); INSULIN (administration & dosage); LEUKEMIA, LYMPHOCYTIC (complications); MALE; MIDDLE AGE; PREDNISONE (therapeutic use); PROTEIN BINDING.

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[STUDY OF THE CONTENT OF TOTAL POTASSIUM IN PATIENTS WITH DIABETES MELLITUS BY THE METHOD OF WHOLE BODY RADIOMETRY] Ershova LM, Gabuniia RI, Kaplan MA *Ter Arkh 47: 117-9, 1975 (Rus)* DL/76AUG348

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GROWTH HORMONE LEVELS DURING MORNING AND AFTERNOON NAPS. Karacan

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ADULT; CIRCADIAN RHYTHM; HUMAN; MALE; PERIODICITY; SLEEP (physiology); SLEEP, REM (physiology); SOMATOTROPIN (blood); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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AN ANOMALY OF INSULIN REMOVAL IN PERFUSED LIVERS OF OBESE-HYPERGLYCEMIC (OB/OB) MICE. Karakash C, Assimacopoulos-Jeannet F, Jeanrenaud B *J Clin Invest 57: 1117-24, May 76 (Eng)* DL/76AUG148
ANIMAL EXPERIMENTS (analysis); FASTING; INSULIN (metabolism, pharmacodynamics); LIVER (drug effects, metabolism); MALE; MICE; MICE, OBESE (metabolism); ORGAN WEIGHT; PERFUSION.

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THE CONTROL OF HYPERTENSION, ATHEROSCLEROTIC DISEASES, AND DIABETES IN A FAMILY PRACTICE. Kark SL, Kark E, Hopp C, Abramson JH, Epstein LM, Ronen I *J R Coll Gen Pract 26: 157-69, Mar 76 (Eng)* DL/76AUG202

Kark RM

NUTRITIONAL ASPECTS OF CARDIOVASCULAR RENAL DISEASES. Kark RM, Oyama JH *Prog Food Nutr Sci 1: 611-44, 1975 (Eng)* [150] DL/76AUG331
ANIMAL EXPERIMENTS (analysis); CARDIOVASCULAR DISEASES (etiology, therapy); DEFICIENCY DISEASES; DIABETIC NEPHROPATHIES; DIET; ENERGY METABOLISM; GLOMERULONEPHRITIS; HEART FAILURE, CONGESTIVE; HUMAN; HYPERTENSION; HYPOKALEMIA; KIDNEY DISEASES (etiology, therapy); KIDNEY FAILURE, ACUTE; KIDNEY FAILURE, CHRONIC; KIDNEY (physiology); MINERALS; NEPHROTIC SYNDROME; NUTRITION DISORDERS (complications); NUTRITION; REVIEW; STARVATION; WATER.

Kark SL

THE CONTROL OF HYPERTENSION, ATHEROSCLEROTIC DISEASES, AND DIABETES IN A FAMILY PRACTICE. Kark SL, Kark E, Hopp C, Abramson JH, Epstein LM, Ronen I *J R Coll Gen Pract 26: 157-69, Mar 76 (Eng)* DL/76AUG202
ADULT; ARTERIOSCLEROSIS (prevention & control); ATHEROSCLEROSIS (prevention & control); COMMUNITY MEDICINE; DIABETES MELLITUS (prevention & control); FAMILY PRACTICE; FEMALE; GENERAL PRACTICE; HUMAN; HYPERTENSION (prevention & control); ISRAEL (instrumentation); MALE; MIDDLE AGE.

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[PLASMATIC IMMUNOREACTIVE INSULIN IN TRAINED ATHLETES] Karlicek V, Topolcan O, Jeschke J *Cas Lek Cesk 115: 324-6, 19 Mar 76 (Cze)* DL/76AUG26
ADAPTATION, PHYSIOLOGICAL; ADULT; ANTIGENS (analysis); ENGLISH ABSTRACT; EXERTION; HUMAN; INSULIN (blood); MALE; PHYSICAL EDUCATION AND TRAINING; SPORT MEDICINE.

[IMMUNOREACTIVE INSULIN IN OBESE PATIENTS WITH CORONARY ATHEROSCLEROSIS AND MYOCARDIAL INFARCT (AUTHORS TRANSL)] Karlicek V, Topolcan O, Chudacek Z *Cas Lek Cesk 115: 207-9, 20 Feb 76 (Cze)* DL/76AUG29
ADULT; ANTIGENS; CORONARY DISEASE (blood); ENGLISH ABSTRACT; HUMAN; INSULIN (blood); MIDDLE AGE; MYOCARDIAL INFARCT (blood); OBESITY (blood, complications).

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ADOLESCENCE; ADULT; ANTIBODY FORMATION; ANTIGENS; BLOOD SUGAR (metabolism); CELL MIGRATION INHIBITION; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (immunology); FEMALE; HUMAN; IMMUNITY, CELLULAR; INSULIN (blood); LEUKOCYTES (immunology); MALE; MIDDLE AGE; MIGRATION INHIBITORY FACTOR (isolation & purification).

Karonen SL

LETTER: EFFECTS OF EXERTION ON HORMONE SECRETION. Karonen SL, Adlercreutz H, Dessypris A *Br Med J 4: 102-3, 11 Oct 75 (Eng)* *DL/76AUG645
EXERTION; HUMAN; MALE; PHYSICAL FITNESS; SOMATOTROPIN (blood).

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[INSULIN CONTENT OF RAT BLOOD FOLLOWING INJURY TO THE VENTROMEDIAL SECTION OF THE HYPOTHALAMUS] Goldberg RS, Kasatkin IuN, Lazaris IaI, Smirnova LK *Biull Eksp Biol Med 79: 40-3, Jun 75 (Rus)* DL/76AUG9

Kasatkina LA

[PATHOGENESIS OF DISORDERS OF THE THYROID GLAND FUNCTION IN PREGNANCY] Bobik IuI, Kasatkina LA, Pashchenko AE, Mitso ASh, Fabri ZI *Vopr Okhr Materin Det 19: 71-3, Feb 74 (Rus)* *DL/76AUG859

Kaschnitz RM

LIPID OXIDATION IN BIOLOGICAL MEMBRANES. ELECTRON TRANSFER PROTEINS AS INITIATORS OF LIPID AUTOXIDATION. Kaschnitz RM, Hatefi Y *Arch Biochem Biophys 171: 292-304, Nov 75 (Eng)* *DL/76AUG897
ANIMAL; CATTLE; CLOSTRIDIUM (metabolism); CYTOCHROME P-450 (metabolism); ELECTRON TRANSPORT; FERREDOXINS (metabolism); HEMEPROTEINS (metabolism); HEMOGLOBINS (metabolism); HUMAN; KINETICS; LIPIDS (metabolism); METHEMOGLOBIN (metabolism); MICROSOMES, LIVER (enzymology); MITOCHONDRIA (enzymology); OXIDATION-REDUCTION; PEROXIDES (metabolism); PHENANTHROLINES; PHILIPPINES; PROTEIN BINDING; PROTEINS (metabolism); RABBITS; SUCCINATE DEHYDROGENASE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Kastin AJ

[RESPONSE TO ACUTE ADMINISTRATION OF PITUITARY INHIBITING HORMONE, GROWTH HORMONE AND ONE OF ITS ANALOGUES IN ACROMEGALY] Gonzalez-Barcena D, Kastin AJ, Coy DH, Schalch DS, Lara-Vasconcelos M, Gonzalez-Sanchez A, Schally AV *Arch Invest Med (Mex) 6: 505-12, 1975 (Spa)* *DL/76AUG902

Kather H

EFFECTS OF SH-REAGENTS OF DIFFERENT MOLECULAR SIZE UPON GLUCOSE METABOLISM IN ISOLATED RAT FAT CELLS. Kather H, Simon B *Horm Metab Res 7: 415-8, Sep 75 (Eng)* *DL/76AUG690
ADIPOSE TISSUE (metabolism, drug effects); ANIMAL; CARBON DIOXIDE (metabolism); CHLOROMERCURIBENZOATES (pharmacodynamics); DEXTRAN (pharmacodynamics); GLUCOSE (metabolism); IN VITRO; MALE; MOLECULAR WEIGHT; RATS; TRIGLYCERIDES (biosynthesis).

Katoh E

[EXPERIENCE IN THE TREATMENT OF ISLET ADENOMAS (AUTHORS TRANSL)] Sailer R, Katoh E, Druneklee D, Kovaciecek S, Berger M *Munch Med Wochenschr 118: 429-34, 2 Apr 76 (Ger)* DL/76AUG259

Katona G

COMPARISON BETWEEN CYTOCHEMICAL CHANGES, CONCENTRATION OF PAS-POSITIVE SUBSTANCES IN PERIPHERAL BLOOD LYMPHOCYTES AND CHANGES OF BLOOD GLUCOSE VALUES DURING THE ORAL GLUCOSE TOLERANCE TEST. Papic Z, Katona G, Crepinko I, Skrabalo Z *Acta Diabetol Lat 12: 232-8, May-Aug 75 (Eng)* DL/76AUG405

Katsu K

[HISTOCHEMICAL STUDY OF MEDIUM-CHAIN, NEUTRAL FAT, GLUCOSE AND IRON UPTAKE IN THE INTESTINAL-TYPE EPITHELIAL CELLS OF THE GASTRIC MUCOSA] Katsu K, Maezawa H, Odakura T *Jpn J Gastroenterol 72: 838-45, Jul 75 (Jpn)* *DL/76AUG560
ADULT; AGED; ENGLISH ABSTRACT; EPITHELIAL CELLS (metabolism, cytology); FATS (metabolism); FEMALE; GASTRIC MUCOSA (metabolism, cytology); GLUCOSE (metabolism); HISTOCYTOCHEMISTRY; HUMAN; IRON (metabolism); MALE; MIDDLE AGE.

Kattermann R

[FUNCTION TESTS FOR CARBOHYDRATE METABOLISM IN CLINICAL AND MEDICAL PRACTICE. BASIC PRINCIPLES, TECHNIC AND VALUE] Kattermann R, Kobberling J *Med Welt 26: 2293-9, 19 Dec 75 (Ger)* DL/76AUG238
BLOOD SUGAR (metabolism); DIABETES MELLITUS (diagnosis); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (secretion); TOLBUTAMIDE (diagnostic use).

Katyare S

OSCILLATORY STATES OF MITOCHONDRIA. INFLUENCE OF UNSATURATED FATTY ACID COMPOSITION. Williams MA, Katyare S, Packer L *Arch Biochem Biophys 170: 353-9, Oct 75 (Eng)* *DL/76AUG895

Katz AM

CONGESTIVE HEART FAILURE: ROLE OF ALTERED MYOCARDIAL CELLULAR CONTROL. Katz AM *N Engl J Med 293: 1184-91, 4 Dec 75 (Eng)* *DL/76AUG751
ACIDOSIS (metabolism); ACTIN (physiology); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (physiology); CALCIUM (physiology, metabolism); HEART FAILURE, CONGESTIVE (physiopathology, metabolism); HEART (physiopathology); HUMAN; MYOCARDIAL CONTRACTION; MYOCARDIUM (cytology); MYOSIN (physiology); POTASSIUM (metabolism); PROTEIN BINDING; SARCOLEMMA (physiology); SARCOPLASMIC RETICULUM (physiology); SODIUM (physiology, metabolism); TROPOMYOSIN (physiology); TROPONIN (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

Katz MS

SELECTIVE INHIBITION OF CHOLERA TOXIN- AND CATECHOLAMINE-STIMULATED LIPOLYSIS BY BLOCKING AGENTS. Katz MS, Greenough WB 3d *Infect Immun 12: 964-8, Nov 75 (Eng)* *DL/76AUG519
ADENYL CYCLASE (metabolism); ANIMAL EXPERIMENTS; CATECHOLAMINES (pharmacodynamics); DEPRESSION,

CHEMICAL; ENTEROTOXINS (pharmacodynamics); EPINEPHRINE (antagonists & inhibitors); ISOPROTERENOL (antagonists & inhibitors); LIPIDS (metabolism); MALE; NOREPINEPHRINE (antagonists & inhibitors); PHENTOLAMINE (pharmacodynamics); PRACTOLOL (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RATS; RECEPTORS, ADRENERGIC; THEOPHYLLINE (antagonists & inhibitors); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VIBRIO CHOLERAE.

Kauchtschischvili G

[INSULIN AVAILABILITY IN SOME FAMILIAL INHERITED NEUROLOGICAL SYNDROMES (AUTHORS TRANSL)] Fratino P, Kauchtschischvili G, Nappi G, Poloni M, Favino A, Criffo A *Riv Patol Nerv Ment 95: 624-31, Oct 74 (Ita)* DL/76AUG335

Kauer JS

LOCAL SITES OF ACTIVITY-RELATED GLUCOSE METABOLISM IN RAT OLFACTORY BULB DURING OLFACTORY STIMULATION. Sharp FR, Kauer JS, Shepherd GM *Brain Res 98: 596-600, 21 Nov 75 (Eng)* *DL/76AUG646

Kaufmann P

EXPERIMENTS ON INFARCT GENESIS CAUSED BY BLOCKAGE OF CARBOHYDRATE METABOLISM IN GUINEA PIG PLACENTAE. Kaufmann P *Virchows Arch [Pathol Anat] 368: 11-21, 7 Oct 75 (Eng)* *DL/76AUG858

ANIMAL; CARBOHYDRATES (metabolism); ERYTHROCYTE AGGREGATION, INTRAVASCULAR (chemically induced); FEMALE; FIBRIN (metabolism); GLYCERALDEHYDEPHOSPHATE DEHYDROGENASE (antagonists & inhibitors); GUINEA PIGS; INFARCTION (metabolism, chemically induced, pathology); IODOACETATES; PLACENTA (blood supply, metabolism, ultrastructure); PREGNANCY; PROTEOGLYCANS (metabolism); PYRUVATES (metabolism).

Kaufmann RL

AMINO ACID LEVELS ACROSS NORMAL FOREARM MUSCLE AND SPLANCHNIC BED AFTER A PROTEIN MEAL. Aoki TT, Brennan MF, Muller WA, Soeldner JS, Alpert JS, Saltz SB, Kaufmann RL, Tan MH, Cahill GF Jr. *Am J Clin Nutr 29: 340-50, Apr 76 (Eng)* DL/76AUG425

Kaur A

RADIATION EFFECTS ON ALKALINE PHOSPHATASE AND GLUCOSE-6-PHOSPHATASE IN ANATOMICALLY DIFFERENT REGIONS OF MOUSE INTESTINE. Kaur A, Dubey DP, Gupta GS *Strahlentherapie 150: 427-32, Oct 75 (Eng)* *DL/76AUG855

ALKALINE PHOSPHATASE (radiation effects, physiology); ANIMAL; COMPARATIVE STUDY; DUODENUM (enzymology, drug effects); GLUCOSE (metabolism); GLUCOSEPHOSPHATASE (radiation effects, physiology); ILEUM (enzymology, radiation effects); INTESTINE, SMALL (radiation effects, enzymology); JEJUNUM (enzymology, radiation effects); MALE; MICE; RADIATION EFFECTS; TIME FACTORS.

Kean EA

COUNTERACTION OF GLUCOCORTICOID--INDUCED HYPERGLYCAEMIA BY HYPOGLYCIN. Kean EA, Walters P *West Indian Med J 24: 206-9, Dec 75 (Eng)* DL/76AUG372

ALANINE (analogs & derivatives); ANIMAL EXPERIMENTS (analysis); CYCLOPROPANES (pharmacodynamics); GLUCOCORTICOIDS (antagonists & inhibitors); GLUCONEOGENESIS (drug effects); HYPERGLYCEMIA (chemically induced); HYPOGLYCEMIA (chemically induced); HYPOGLYCEMIC AGENTS; MALE; RATS.

Kearsley M

BLOOD GLUCOSE PROFILES IN MAN AFTER INGESTION OF GLUCOSE SYRUP FRACTIONS. Kearsley M, Fairhurst E, Green LF *Proc Nutr Soc 34: 60a-61a, Sep 75 (Eng)* *DL/76AUG769

BLOOD SUGAR (metabolism); DISACCHARIDES (analysis); GLUCOSE (metabolism, analysis); HUMAN; HYDROLYSIS; MALE; MOLECULAR WEIGHT; MONOSACCHARIDES (analysis); OLIGOSACCHARIDES (analysis); STARCH.

Kebabian JW

RAPID CHANGES IN RAT PINEAL BETA-ADRENERGIC RECEPTOR: ALTERATIONS IN L-(3H)ALPRENOLOL BINDING AND ADENYLATE CYCLASE. Kebabian JW, Zatz M, Romero JA, Axelrod J *Proc Natl Acad Sci USA 72: 3735-9, Sep 75 (Eng)* *DL/76AUG766

ADENOSINE TRIPHOSPHATE (pharmacodynamics); ADENYL CYCLASE (metabolism); ALPRENOLOL (metabolism); ANIMAL EXPERIMENTS; BINDING SITES; ISOPROTERENOL (pharmacodynamics); LIGHT; MALE; PINEAL BODY (metabolism, enzymology); RATS; RECEPTORS, ADRENERGIC (drug effects); TIME FACTORS.

Keith MO

UTILIZATION OF AMINO ACIDS ADMINISTERED ENTERALLY OR PARENTERALLY TO YOUNG PIGS. Keith MO, Peace RW, Botting HG, Hamilton EJ *J Nutr 105: 1535-43, Dec 75 (Eng)* *DL/76AUG550

ADMINISTRATION, ORAL; AMINO ACIDS, ESSENTIAL (metabolism, administration & dosage); ANIMAL EXPERIMENTS; BLOOD PROTEINS (metabolism); BLOOD SUGAR (metabolism); CASEIN (administration & dosage); COMPARATIVE STUDY; ELECTROLYTES (blood); FASTING; FEMALE; GASTRIC FISTULA; HEMATOCRIT; LIPIDS (blood); NITROGEN (metabolism); PARENTERAL FEEDING; STOMACH (surgery); SWINE (metabolism).

Kelnar CJ

HYPOGLYCAEMIA IN CHILDREN UNDERGOING ADENOTONSILLECTOMY. Kelnar CJ *Br Med J 1: 751-2, 27 Mar 76 (Eng)* DL/76AUG16

ADENOIDECTOMY; CASE REPORT; CHILD; CHILD, PRESCHOOL; FEMALE; HUMAN; HYPOGLYCEMIA (etiology); POSTOPERATIVE COMPLICATIONS; TONSILLECTOMY.

Kelsch RC

RISE IN PLASMA FREE-NOREPINEPHRINE DURING ANESTHETIC INDUCTION WITH KETAMINE. Zsigmond EK, Kelsch RC, Kothary SP *Behav Neuropsychiatry 6: 81-4, Apr 74-Mar 75 (Eng)* *DL/76AUG909

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INCREASED ARACHIDONATE IN LIPIDS AFTER ADMINISTRATION TO MAN: EFFECTS ON PROSTAGLANDIN BIOSYNTHESIS. Seyberth HW, Oelz O, Kennedy T, Sweetman BJ, Danon A, Frolich JC, Heimberg M, Oates JA *Clin Pharmacol Ther 18: 521-9, Nov 75 (Eng)* *DL/76AUG664

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SERUM INSULIN VALUES DURING ORAL GLUCOSE TOLERANCE TEST IN VARIOUS AGE GROUPS. Kerpel-Fronius E, Gacs G *Acta Paediatr Acad Sci Hung 16: 197-202, 1975 (Eng)* DL/76AUG413

ADOLESCENCE; AGE FACTORS; ANTIGENS; BLOOD SUGAR (metabolism); CHILD; CHILD, PRESCHOOL; ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); GLUCOSE TOLERANCE TEST; INFANT; INFANT, NEWBORN; INSULIN (blood).

Keys A

CORONARY HEART DISEASE--THE GLOBAL PICTURE. Keys A *Atherosclerosis 22: 149-92, Sep-Oct 75 (Eng) [278]* *DL/76AUG921

ADULT; CHOLESTEROL (blood); CORONARY DISEASE (occurrence, prevention & control, mortality, familial & genetic); DIETARY FATS (adverse effects); DIETARY HABITS; ESKIMOS; ETHNIC GROUPS; EXERTION; FEMALE; HUMAN; INDIANS, NORTH AMERICAN; MALE; MIDDLE AGE; OBESITY (complications); OCCUPATIONS; PERSONALITY; PHYSICAL FITNESS; REVIEW; SMOKING (complications); SOCIAL CLASS; STRESS (complications); SUCROSE (adverse effects); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VITAMIN E (pharmacodynamics); WATER SUPPLY (analysis).

Khakpour M

DIABETES MELLITUS FOLLOWING A MUMPS EPIDEMIC. Khakpour M, Nik-Akhtar B *J Trop Med Hyg 78: 262-3, Dec 75 (Eng)* DL/76AUG206

ADOLESCENCE; ADULT; ALANINE AMINOTRANSFERASE (blood); AMYLASE (blood); ANTIBODIES, VIRAL (analysis); ASPARTATE AMINOTRANSFERASE (blood); CHILD; DIABETES MELLITUS (enzymology, etiology); DISEASE OUTBREAKS (occurrence); FEMALE; HUMAN; IRAN (innervation); MALE; MUMPS (complications, immunology, occurrence).

Khanna SS

EFFECT OF STREPTOZOTOCIN ON THE BLOOD GLUCOSE LEVEL AND HISTOLOGY OF THE PRINCIPAL ISLETS OF CHANNA PUNCTATUS (BLOCH). Gill TS, Khanna SS *Z Mikrosk Anat Forsch 89: 319-26, 1975 (Eng)* DL/76AUG391

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[EARLY DETECTION OF DIABETES MELLITUS IN ADULTS AND FACTORS OF INCREASED RISK OF ITS DEVELOPMENT] Antonov IuS, Khizhniak MI *Ter Arkh 48: 114-9, 1976 (Rus)* DL/76AUG349

Khodorovskaia IK

[DETECTION AND PREVENTIVE MEDICAL EXAMINATION OF CHILDREN WITH A HEAVY HISTORY IN CONNECTION WITH DIABETES MELLITUS] Khodorovskaia IK, Bakhareva TP *Vopr Okhr Materin Det 20: 87, Sep 75 (Rus)* DL/76AUG365

ADOLESCENCE; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (diagnosis, familial & genetic); HUMAN.

Khristov L

[CHANGES IN BLOOD COAGULATION IN DIABETIC NEPHROPATHY] Astrug A, Khristov L, Stamenova T *Vutr Boles 14: 69-75, 1975 (Bul)* DL/76AUG369

Kiang SW

SEMI-SOLID SURFACE FLUOROMETRIC ANALYSIS OF GLUCOSE. Kiang SW, Kuan JW, Guilbault GG *Clin Chem 21: 1799-801, Nov 75 (Eng)* *DL/76AUG657

BINDING SITES; BLOOD SUGAR (analysis); COMPARATIVE STUDY; DRUG STABILITY; EVALUATION STUDIES; HUMAN; SILICONE ELASTOMERS; SPECTROMETRY, FLUORESCENCE (methods); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Kibrick S

SUSCEPTIBILITY OF MICE TO GROUP B COXSACKIE VIRUS IS INFLUENCED BY THE DIABETIC GENE. Webb SR, Loria RM, Madge GE, Kibrick S *J Exp Med 143: 1239-48, 1 May 76 (Eng)* DL/76AUG191

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[INFLUENCE OF CHLORPROPAMIDE ON THE EXCRETION OF ELECTROLYTES IN DIABETES INSIPIDUS] Peci-Popovic E, Janjic M, Kicic M *Glas Srp Akad Nauka [Med] 77-84, 1975 (Ser)* DL/76AUG104

Kieser H

[THE INFLUENCE OF FEEDING ON CLINICAL-CHEMICAL PARAMETERS IN THE SERUM OF RATS (AUTHORS TRANSL)] Breuer J, Kieser H *Z Klin Chem Klin Biochem 13: 401-5, Sep 75 (Ger)* *DL/76AUG595

Kim CI

A HIGH INCIDENCE OF POSITIVE PROVOCATION OF PLASMA PANCREATIC ENZYMES IN THE POORLY CONTROLLED DIABETIC SUBJECTS. Harano Y, Shimizu Y, Yoshida M, Dtani N, Kim CI *Acta Diabetol Lat 12: 177-84, May-Aug 75 (Eng)* DL/76AUG399

Kim ND

45CA2& ACCUMULATION BY MITOCHONDRIA AND SARCOPLASMIC RETICULUM IN CHRONIC POTASSIUM DEPLETION CARDIOMYOPATHY. Kim ND, Harrison CE *Recent Adv Stud Cardiac Struct Metab 4: 551-62, 1974 (Eng)* *DL/76AUG824
ANIMAL; BINDING SITES; BIOLOGICAL TRANSPORT; CALCIUM (metabolism); CATS; CELL-FREE SYSTEM; CHRONIC DISEASE; IN VITRO; MITOCHONDRIA, MUSCLE (metabolism); MYOCARDIAL CONTRACTION; MYOCARDIAL DISEASES, PRIMARY (metabolism, physiopathology); MYOCARDIUM (metabolism, ultrastructure); POTASSIUM DEFICIENCY; RABBITS; SARCOPLASMIC RETICULUM (metabolism).

MYOCARDIAL FUNCTION AND SUBCELLULAR CALCIUM METABOLISM IN CHRONIC POTASSIUM DEFICIENCY. Sack DW, Kim ND, Harrison CE Jr *Recent Adv Stud Cardiac Struct Metab 5: 203-11, 1975 (Eng)* *DL/76AUG833

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INDUCTION OF HYPERTRIGLYCERIDEMIA BY A LOW-FAT DIET. Ginsberg H, Olefsky JM, Kimmerling G, Crapo P, Reaven GM *J Clin Endocrinol Metab 42: 729-35, Apr 76 (Eng)* DL/76AUG145

EFFECTS OF GLUCOCORTICOIDS ON CARBOHYDRATE METABOLISM. Olefsky JM, Kimmerling G *Am J Med Sci 271: 202-10, Mar-Apr 76 (Eng)* DL/76AUG430

Kimura K

CHANGES IN ADENYLATE ENERGY CHARGE OF THE LIVER AFTER AN ORAL GLUCOSE LOAD. Kimura K, Kamiyama Y, Ozawa K, Honjo I *Gastroenterology 70: 665-8, May 76 (Eng)* DL/76AUG100
ADENINE NUCLEOTIDES (metabolism); ADENOSINE DIPHOSPHATE (metabolism); ADENYLATE KINASE (metabolism); ADMINISTRATION, ORAL; ALLOXAN DIABETES (metabolism); ANIMAL EXPERIMENTS (analysis); ANTIGENS (analysis); BLOOD SUGAR (metabolism); ENERGY METABOLISM (drug effects); GLUCOSE (administration & dosage, pharmacodynamics); INSULIN (immunology, metabolism); LIVER (metabolism); MALE; MITOCHONDRIA, LIVER (enzymology, metabolism); PANCREAS (secretion); PHOSPHOTRANSFERASES, ATP (metabolism); RATS.

Kin E

TRANSPORT OF SUGARS AND AMINO ACIDS IN BACTERIA. XV. COMPARATIVE STUDIES ON THE EFFECTS OF VARIOUS ENERGY POISONS ON THE OXIDATIVE AND PHOSPHORYLATING ACTIVITIES AND ENERGY COUPLING REACTIONS FOR THE ACTIVE TRANSPORT SYSTEMS FOR AMINO ACIDS IN E. COLI. Anraku Y, Kin E, Tanaka Y *J Biochem (Tokyo) 78: 165-79, Jul 75 (Eng)* *DL/76AUG526

Kinne R

SUGAR TRANSPORT BY RENAL PLASMA MEMBRANE VESICLES. CHARACTERIZATION OF THE SYSTEMS IN THE BRUSH-BORDER MICROVILLI AND BASAL-LATERAL PLASMA MEMBRANES. Kinne R, Murer H, Kinne-Saffran E, Thees M, Sachs G *J Membr Biol 21: 375-95, 22 May 75 (Eng)* *DL/76AUG557
ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; CATIONS, MONOVALENT; CELL MEMBRANE (metabolism, drug effects); GLUCOSE (metabolism); KIDNEY CORTEX (metabolism); KINETICS; PHLORHIZIN (pharmacodynamics); POTASSIUM CHLORIDE (pharmacodynamics); RATS; SODIUM CHLORIDE (pharmacodynamics); SODIUM (metabolism); STEREOISOMERS; THERMODYNAMICS.

DISTRIBUTION OF MEMBRANE-BOUND CYCLIC AMP-DEPENDENT PROTEIN KINASE IN PLASMA MEMBRANES OF CELLS OF THE KIDNEY CORTEX. Kinne R, Shlatz LJ, Kinne-Saffran E, Schwartz IL *J Membr Biol 24: 145-59, 7 Nov 75 (Eng)* *DL/76AUG559
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ALKALINE PHOSPHATASE (metabolism); ANIMAL EXPERIMENTS; CELL MEMBRANE (enzymology, drug effects); CYTOSOL (enzymology); ENZYME ACTIVATION (drug effects); KIDNEY CORTEX (cytology, enzymology); KINETICS; MAGNESIUM (pharmacodynamics); OUABAIN (pharmacodynamics); POTASSIUM CHLORIDE (pharmacodynamics); POTASSIUM (pharmacodynamics), PROTEIN BINDING; PROTEIN KINASE (metabolism); RATS; SODIUM (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Kinne-Saffran E

SUGAR TRANSPORT BY RENAL PLASMA MEMBRANE VESICLES. CHARACTERIZATION OF THE SYSTEMS IN THE BRUSH-BORDER MICROVILLI AND BASAL-LATERAL PLASMA MEMBRANES. Kinne R, Murer H, Kinne-Saffran E, Thees M, Sachs G *J Membr Biol 21: 375-95, 22 May 75 (Eng)* *DL/76AUG557

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Kiriasova ZhR

[CERTAIN INDICATORS OF THE FUNCTIONAL STATE OF FETOPLACENTAL COMPLEX IN PREGNANCY COMPLICATED BY LATE TOXEMIA AND THREATENED ABORTION] Anisimova MI, Eiber NS, Kiriasova ZhR *Vopr Okhr Materin Det 19: 62-6, Apr 74 (Rus)* *DL/76AUG860

Kirschbaum BB

GLYCOPROTEIN METABOLISM IN HUMAN RENAL DISEASE: SERUM GLYCOPROTEINS AND GLYCOPROTEIN: GLYCOSYL TRANSFERASE LEVELS IN CHRONIC RENAL FAILURE. Kirschbaum BB *J Lab Clin Med 86: 764-71, Nov 75 (Eng)* *DL/76AUG720
ADOLESCENCE; ADULT; ABO BLOOD-GROUP SYSTEM; BLOOD PLATELETS (enzymology); BLOOD (drug effects); CATIONS, DIVALENT; CHILD; CREATININE (blood); FEMALE; GALACTOSEMIA; GLYCOPROTEIN BETA GALACTOSYLTRANSFERASE (blood); GLYCOPROTEINS (blood); HEAT; HEXOSAMINES (blood); HEXOSES (blood); HEXOSYLTRANSFERASES (blood); HUMAN; KIDNEY FAILURE, CHRONIC (blood, enzymology); MALE; MIDDLE AGE; SIALIC ACIDS (blood); SIALYLTRANSFERASE (blood); UREA (pharmacodynamics).

Kiselev GV

[METABOLISM OF LIVER POLYPHOSPHOISOSITIDES IN RATS DURING STIMULATING AND DEPRESSING INFLUENCES ON THE ORGANISM] Kiselev GV, Pavlinova LI *Biull Eksp Biol Med 80: 40-3, Sep 75 (Rus)* DL/76AUG10
AMPHETAMINE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); ANOXIA; ELECTRIC STIMULATION; ENGLISH ABSTRACT; HYPOGLYCEMIA; LIVER (drug effects, metabolism); MALE; PHOSPHATES (metabolism); PHOSPHOINOSITIDES (metabolism); RATS; THIOPENTAL.

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INSULIN STIMULATES ACTIVE SODIUM TRANSPORT IN TOAD BLADDER BY TWO MECHANISMS. Wiesmann WP, Sinha S, Klahr S *Nature 260: 546-7, 8 Apr 76 (Eng)* DL/76AUG272

Klassen GA

ADAPTATION OF THE CORONARY CIRCULATION TO PRIMARY MYOCARDIAL DISEASE. Klassen GA, Tanser PH, Marpole D, Agarwal JB *Recent Adv Stud Cardiac Struct Metab 3: 497-506, 1973 (Eng)* *DL/76AUG802
ADOLESCENCE; ADULT; CORONARY CIRCULATION; CORONARY VESSELS (anatomy & histology); FEMALE; HUMAN; MALE; MIDDLE AGE; MYOCARDIAL DISEASES, PRIMARY (physiopathology); MYOCARDIUM (metabolism); OLEIC ACIDS (metabolism); OXYGEN CONSUMPTION; VASCULAR RESISTANCE.

Klatsky AL

PREDICTORS OF SUDDEN CARDIAC DEATH. Friedman GD, Klatsky AL, Siegelaub AB *Circulation 52: 164-9, Dec 75 (Eng)* *DL/76AUG656

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PROTEIN DEGRADATION IN ACUTE CARDIAC LOADING: THE PROBLEM OF REUTILIZATION OF AMINO ACIDS. Schreiber SS, Oratz M, Klein I, Rothschild MA *Recent Adv Stud Cardiac Struct Metab 3: 589-601, 1973 (Eng)* *DL/76AUG806

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RIBONUCLEIC ACID AND PROTEIN SYNTHESIS IN RAT HEART MITOCHONDRIA ISOLATED AFTER AORTIC CONSTRICTION, STRENUOUS PHYSICAL EXERCISE, TOTAL MYOCARDIAL ISCHEMIA, AND THEOPHYLLINE TREATMENT. Wollenberger A, Kleitke B *Recent Adv Stud Cardiac Struct Metab 3: 535-50, 1973 (Eng)* *DL/76AUG804

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LYSOZYME ACTIVITY IN CEREBROSPINAL FLUID. Reitamo S, Klockars M *Acta Med Scand 199: 321-5, 1976 (Eng)* DL/76AUG420

Kloppel G

ULTRASTRUCTURE OF HEMANGIOPERICYTOMA ASSOCIATED WITH PARANEOPLASTIC HYPOGLYCEMIA. Bommer G, Altenahr E, Kuhnau J Jr, Kloppel G *Z Krebsforsch 85: 231-41, 19 Mar 76 (Eng)* DL/76AUG389

Kloss D

[EARLY ADAPTATION OF PREMATURE INFANTS (HEMATOLOGICAL AND BIOCHEMICAL ASPECTS)] Rusu O, Bulat E, Iorgulescu M, Deciu L, Baltac C, Kloss D *Rev Pediatr Obstet Ginecol [Pediatr] 24: 37-47, Jan-Mar 75 (Rum)* *DL/76AUG840

Kmoch J

[INSULINEMIA IN RENAL GLYCOSURIA] Polackova H, Kmoch J, Prokes J, Svoboda Z, Vseteckova A *Vnitr Lek 22: 341-4, Apr 76 (Cze)* DL/76AUG363

Knieriem HJ

[MORPHOLOGY OF CORONARY HEART DISEASE (AUTHORS TRANSL)] Knieriem HJ *Radiologe 16: 84-8, Mar 76 (Ger)* DL/76AUG329
ADULT; AGED; ARTERIES (abnormalities); ARTERIOSCLEROSIS (complications, pathology); CHRONIC DISEASE; CORONARY DISEASE (complications, pathology); CORONARY VESSEL ANOMALIES; CORONARY VESSELS (radiography); DIABETIC ANGIOPATHIES (pathology); ENGLISH ABSTRACT; HUMAN; HYPERLIPEMIA (complications); HYPERTENSION (complications); MALE; MIDDLE AGE; MUSCLE, SMOOTH (pathology); MYOCARDIUM (pathology).

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ADULT; AGED; AMBLYOPIA (etiology); ATHEROSCLEROSIS (complications, diagnosis); CAROTID ARTERY DISEASES (complications, diagnosis); CASE REPORT; DIABETES MELLITUS (complications); DIAGNOSIS, DIFFERENTIAL; EYE MOVEMENTS; FEMALE; HUMAN; MALE; MIDDLE AGE; MONOGRAPH (mortality); NUTRITION DISORDERS (complications); OCULOMOTOR PARALYSIS (diagnosis, etiology); OPTIC DISK (physiopathology); OPTIC NEURITIS (metabolism); THYROID DISEASES (complications, diagnosis); VISION DISORDERS (diagnosis, etiology).

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Kochakian CD

DEFINITION OF ANDROGENS AND PROTEIN ANABOLIC STEROIDS. Kochakian CD *Pharmacol Ther [B] 1: 149-77, 1975 (Eng) [442]* DL/76AUG324
ADRENAL GLANDS (physiology); ANABOLIC STEROIDS; ANDROGENS (analysis, physiology); ANIMAL EXPERIMENTS (analysis); BODY COMPOSITION (drug effects); BODY WEIGHT; DIABETES MELLITUS (physiopathology); DOGS; ENDOCRINE GLANDS (physiology); FEMALE; GUINEA PIGS; IN VITRO; KIDNEY (drug effects); MALE; MICE; MUSCLES (physiology); NITROGEN (metabolism); NOMENCLATURE; NUTRITION; PITUITARY GLAND (physiology); RATS; RECEPTORS, HORMONE (drug effects); REVIEW; THYROID GLAND (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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BLOOD PRESSURE (drug effects); CARDIAC OUTPUT (drug effects); DIAZOXIDE (adverse effects, metabolism, pharmacodynamics, therapeutic use); DIURETICS (administration & dosage); DRUG SYNERGISM; EMERGENCIES; FEMALE; HALF-LIFE; HEART RATE (drug effects); HEMODYNAMICS (drug effects); HUMAN; HYPERGLYCEMIA (chemically induced); HYPERTENSION (drug therapy); MALE; PREGNANCY; PROPRANOLOL (therapeutic use); REVIEW; URIC ACID (blood); VASCULAR RESISTANCE.

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ACIDOSIS, DIABETIC (diagnosis, therapy); ADULT; BICARBONATES (therapeutic use); BLOOD SUGAR; CHILD; GLUCOSE (therapeutic use); HUMAN; HYPOGLYCEMIA (therapy); INSULIN (therapeutic use); KETO ACIDS (blood); POTASSIUM (therapeutic use); REVIEW; WATER-ELECTROLYTE IMBALANCE.

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ADULT; BLOOD SUGAR (analysis); CARBOHYDRATE METABOLISM, INBORN ERRORS (blood); CHILD; CHILD, PRESCHOOL; COMPARATIVE STUDY; FEMALE; FRUCTOSE INTOLERANCE (blood, familial & genetic); FRUCTOSE (administration & dosage, blood); GALACTOSEMIA (blood); HUMAN; LACTATES (blood); MAGNESIUM (blood); MALE; PHOSPHATES, INORGANIC (blood); URIC ACID (blood, urine).

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INSULIN SECRETION IN PATIENTS WITH CHRONIC HEPATITIS TREATED WITH LIPOSTABIL. Kuska J, Kokot F *Pol Med Sci Hist Bull 15: 433-8, Jul-Aug 75 (Eng)* DL/76AUG305

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[CALCIUM, MAGNESIUM, PHOSPHORUS, CHLORIDE AND GLUCOSE IN THE BLOOD OF CATTLE FOLLOWING INTRAVENOUS INFUSION OF SOLUTIONS WITH VARIOUS CALCIUM AND MAGNESIUM CONCENTRATION AIMED AT IMPROVING THE TREATMENT OF HYPOMAGNESEMIA] Hadlich M, Kolb E *Arch Exp Veterinaermed 29: 379-95, Jun 75 (Ger)* *DL/76AUG904

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[EFFECT OF CATECHOLAMINES ON THE METABOLISM OF GLUCOSE, FATTY ACIDS AND ON THE HEART RATE IN GOATS] Bartos S, Dolezel F, Kolbl M *Vet Med (Praha) 20: 289-301, May 75 (Cze)* *DL/76AUG591

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ADOLESCENCE; ADRENAL CORTEX (drug effects, secretion); ADRENAL GLANDS (secretion); ADULT; BLOOD SUGAR (analysis); DRUG TOLERANCE; ENGLISH ABSTRACT; FEMALE; HUMAN; HYDROCORTISONE (blood); HYPOGLYCEMIA (chemically induced); INSULIN (diagnostic use, pharmacodynamics); MALE; MIDDLE AGE; TIME FACTORS.

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ANIMAL MODEL: OBESE HYPERTENSIVE RAT. Koletsky S *Am J Pathol 81: 463-6, Nov 75 (Eng)* *DL/76AUG881
ANIMAL; ATHEROSCLEROSIS (etiology); DISEASE MODELS, ANIMAL; FEMALE; HYPERLIPEMIA; HYPERTENSION; MALE; OBESITY; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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CATABOLITE REPRESSION IN ESCHERICHIA COLI K12 MUTANTS DEFECTIVE IN GLUCOSE TRANSPORT. Gershanovitch VN, Yourovitskaya NV, Komissarova LV, Bolshakova TN, Erlagaeva RS, Bourd GI *Mol Gen Genet 140: 81-90, 15 Sep 75 (Eng)* *DL/76AUG748

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ADRENAL CORTEX HORMONES (therapeutic use); ADRENERGIC BETA RECEPTOR BLOCKADERS (therapeutic use); ASSISTED CIRCULATION; AUTOLYSIS (drug therapy); CARDIAC OUTPUT (drug effects); CORONARY CIRCULATION; ENERGY METABOLISM; ENERGY TRANSFER (drug effects); GLUCOSE (metabolism); HUMAN; HYALURONIDASE (therapeutic use); INSULIN (metabolism); MYOCARDIAL INFARCT (drug therapy, metabolism, pathology); MYOCARDIUM (metabolism, pathology); NECROSIS; OXYGEN CONSUMPTION; PERFUSION; POTASSIUM (metabolism); VASODILATOR AGENTS (therapeutic use).

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ANIMAL; AORTA, THORACIC (metabolism); BIOLOGICAL TRANSPORT; CATTLE; CELLS, CULTURED; FIBROBLASTS (metabolism); GLYCOSAMINOGLYCANS (metabolism); HUMAN; KINETICS; MUCOPOLYSACCHARIDES (metabolism); PINOCYTOSIS; PROTEOGLYCANS (metabolism); SKIN (metabolism); SULFURIC ACIDS (metabolism).

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CORRELATION BETWEEN HUMAN CHORIONIC SOMATOMAMMOTROPIN AND PLACENTAL WEIGHT. Rolschau J, Date J, Kristoffersen K, Pedersen GT, Ulrich M *Acta Obstet Gynecol Scand 54: 341-6, 1975 (Eng)* *DL/76AUG598

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[REGULATORY MECHANISMS IN THE CELL] Kroger H *Fortschr Med 93: 1703-4, 4 Dec 75 (Ger)* *DL/76AUG516
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); CELLS (metabolism, enzymology); DNA (metabolism); HUMAN; PROTEINS (metabolism); PYROPHOSPHATES (metabolism); RNA (metabolism); RNA, MESSENGER (metabolism).

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THE EFFECTS OF DEXAMETHASONE AND STARVATION ON BODY COMPOSITION AND REGIONAL ADIPOSE TISSUE CELLULARITY IN THE RAT. Krotkiewski M, Bjorntorp P *Acta Endocrinol (Kbh) 80: 667-75, Dec 75 (Eng)* *DL/76AUG871
ADIPOSE TISSUE (drug effects, cytology); ANIMAL; BODY COMPOSITION (drug effects); CELL COUNT; DEPRESSION, CHEMICAL; DEXAMETHASONE (pharmacodynamics); EPIDIDYMIS (drug effects, cytology); MALE; RATS; STARVATION; TIME FACTORS; TRIGLYCERIDES (metabolism).

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NUTRITION EFFECT ON LIVER AND LYSOSOMES. VIII. THE UNDERNOURISHMENT ROLE IN A FOLLOWING SHORT-TERM STARVATION. Krustev LP, Ibrishimov NI, Popov AA *Acta Histochem (Jena) 53: 42-57, 1975 (Eng)* *DL/76AUG872
ACID PHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATASE (metabolism); ALKALINE PHOSPHATASE (metabolism); ANIMAL; BLOOD PROTEINS (metabolism); BLOOD SUGAR (analysis); CELL NUCLEUS (ultrastructure); ENDOPLASMIC RETICULUM (ultrastructure); GLUCURONIDASE (metabolism); LIVER (ultrastructure, enzymology); LYSOSOMES (ultrastructure, enzymology); MALE; MITOCHONDRIA, LIVER (ultrastructure); ORGAN WEIGHT; RATS; STARVATION (pathology, enzymology).

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BINDING, COMPETITIVE; ENERGY TRANSFER; GELS; HEMOGLOBINS; INSULIN; OLIGOPEPTIDES; PROTEIN BINDING; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ADIPOSE TISSUE (pathology, radiography); COLONIC DISEASES (pathology, radiography); DIAGNOSIS, DIFFERENTIAL; FEMALE; HUMAN; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (radiography); INFANT, NEWBORN, DISEASES (pathology); MEGACOLON (pathology, radiography); PREGNANCY IN DIABETES (pathology); PREGNANCY.

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AMINO ACIDS (blood); AMMONIUM CHLORIDE (pharmacodynamics); ANIMAL; BLOOD SUGAR (metabolism); CATTLE (physiology); DEPRESSION, CHEMICAL; MALE; PYRUVATES (blood); SHEEP (physiology); UREA (blood).

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AMINO ACIDS (therapeutic use); AMINO ACIDS, ESSENTIAL (therapeutic use); BLOOD PROTEINS (metabolism); BLOOD SUGAR (metabolism); BLOOD UREA NITROGEN; DIETARY CARBOHYDRATES (therapeutic use); HEMODIALYSIS (diagnosis); HISTIDINE (therapeutic use); HUMAN; INSULIN (blood); KIDNEY FAILURE, ACUTE (metabolism, therapy); KIDNEY FAILURE, CHRONIC (metabolism, therapy); MONOGRAPH (mortality); PARENTERAL FEEDING; PARENTERAL HYPERALIMENTATION; PROTEINS (biosynthesis); REVIEW; UREMIA (metabolism).

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[HYPEROSMOLAR COMA] Mantz JM, Tempe JD, Jaeger A, Kurtz D *Munch Med Wochenschr 118: 395-404, 26 Mar 76 (Ger)* DL/76AUG258

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INSULIN SECRETION IN PATIENTS WITH CHRONIC HEPATITIS TREATED WITH LIPOSTABIL. Kuska J, Kokot F *Pol Med Sci Hist Bull 15: 433-8, Jul-Aug 75 (Eng)* DL/76AUG305
ADULT; BLOOD SUGAR (analysis); CHRONIC DISEASE; FEMALE; HEPATITIS (blood, drug therapy, physiopathology); HUMAN; INSULIN (blood, secretion); LECITHINS (therapeutic use); MALE; MIDDLE AGE.

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[HORMONAL FUNCTION OF THE PLACENTA] Dassler CG, Kyank HR *Z Aerztl Fortbild (Jena) 69: 823-8, 1 Aug 75 (Ger)* *DL/76AUG593

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THE TRANSFER OF GLUCOSE TO STEROIDS BY CHIMPANZEE LIVER MICROSOMES. Labow RS, Williamson DG, Layne DS, Collins DC *Can J Biochem 53: 1028-30, Sep 75 (Eng)* *DL/76AUG652
ANIMAL; CHIMPANZEES; ESTRADIOL (metabolism); ESTRIOL (metabolism); ESTROGENS (metabolism); ESTRONE (metabolism); FEMALE; GALACTOSE (metabolism); GLUCOSE (metabolism); GLUCURONATES (metabolism); MICROSOMES, LIVER (metabolism); URIDINE DIPHOSPHATE GLUCOSE (metabolism).

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[HETEROGENEITY OF PROTEIN HORMONES IN RADIOIMMUNOASSAY] Rosselin G, Bataille D, Laburthe M, Duran-Garcia S *Pathol Biol (Paris) 23: 793-803, Dec 75 (Fre)* DL/76AUG282

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ALDOSTERONE (pharmacodynamics); ANDROSTANES (pharmacodynamics); ANDROSTENEDIONE (pharmacodynamics); BINDING SITES; BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CORTICOSTERONE (pharmacodynamics); CORTISONE (pharmacodynamics); CORTODOXONE (pharmacodynamics); ERYTHROCYTES (metabolism); GLUCOSE (metabolism); HUMAN; HYDROCORTISONE (pharmacodynamics); KINETICS; PREGNENES

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ACTIVE TRANSPORT IN ESCHERICHIA COLI B MEMBRANE VESICLES. DIFFERENTIAL INACTIVATING EFFECTS FROM THE ENZYMATIC OXIDATION OF BETA-CHLORO-L-ALANINE AND BETA-CHLORO-D-ALANINE. Kaczorowski G, Shaw L, Laura R, Walsh C *J Biol Chem 250: 8921-30, 10 Dec 75 (Eng)* *DL/76AUG530

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THE TRANSFER OF GLUCOSE TO STEROIDS BY CHIMPANZEE LIVER MICROSOMES. Labow RS, Williamson DG, Layne DS, Collins DC *Can J Biochem 53: 1028-30, Sep 75 (Eng)* *DL/76AUG652

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[A SERIES OF 11 ISLET-CELL TUMOURS OF THE PANCREAS WITH INSULIN SECRETION (AUTHORS TRANSL)] Leborgne J, Pannier M, Le Neel JC, Visset J, Lenne Y, Mousseau M *Ann Chir 30: 193-201, Mar 76 (Fre)* DL/76AUG452

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THE ASSESSMENT OF NOCTURNAL REM ERECTION IN THE DIFFERENTIAL DIAGNOSIS OF SEXUAL IMPOTENCE. Fisher C, Schiavi P, Lear H, Edwards A, Davis DM, Witkin AP *J Sex Marital Ther 1: 277-89, Summer 75 (Eng)* DL/76AUG203

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A DESIGN IMPROVEMENT IN CONTINUOUS BLOOD SAMPLING AND ANALYSIS FOR GLUCOSE IN REST AND EXERCISE. Tzankoff SP, Leatherman NE, Robinson S *J Appl Physiol 39: 873-4, Nov 75 (Eng)* *DL/76AUG710

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[A SERIES OF 11 ISLET-CELL TUMOURS OF THE PANCREAS WITH INSULIN SECRETION (AUTHORS TRANSL)] Leborgne J, Pannier M, Le Neel JC, Visset J, Lenne Y, Mousseau M *Ann Chir 30: 193-201, Mar 76 (Fre)* DL/76AUG452

ADULT; CASE REPORT; COMA (etiology); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOGLYCEMIA (etiology); INSULIN (secretion); ISLANDS OF LANGERHANS (secretion); ISLET CELL TUMOR (secretion, surgery); MALE; MIDDLE AGE; NEOPLASTIC ENDOCRINE-LIKE SYNDROMES; PANCREATIC NEOPLASMS (secretion, surgery).

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STUDY OF HORMONE DEPENDENCE OF HUMAN BREAST CANCER IN ORGAN CULTURE. PP. 129-38. Heuson JC, Pasteels JL, Legros N, Heuson-Stiennon JA, Leclerq G *In0 Namer M, Lalanne CM, ed. Hormones and breast cancer. Paris, INSERM, 1976. WP 870 H812h 1975. (Eng)* DL/76AUG184

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BLOOD SUGAR; DIETARY CARBOHYDRATES (metabolism); HUMAN; INSULIN (blood); INTESTINAL ABSORPTION; WHEAT.

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BLOOD SUGAR (analysis); DIETARY CARBOHYDRATES (metabolism); ENERGY METABOLISM; FOOD HABITS; FOOD; INTESTINAL ABSORPTION; OBESITY (etiology); PERISTALSIS; TIME FACTORS.

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LIPIDS AND LIPOPROTEINS IN CHRONIC URAEMIA. A STUDY OF THE INFLUENCE OF REGULAR HAEMODIALYSIS. Daubresse JC, Lerson G, Plamteux G, Rorive G, Luyckx AS, Lefebvre PJ *Eur J Clin Invest 6: 159-66, 31 Mar 76 (Eng)* DL/76AUG86

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[IMMUNO-REACTIVE INSULIN-LIKE SUBSTANCES IN THE RAT] Felix JM, Sutter-Dub MT, Legrele C, Billaudel B, Sutter BC, Jacquot R *Pathol Biol (Paris) 23: 841-8, Dec 75 (Fre)* DL/76AUG283

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[ABSENCE OF SOMATOSTATIN EFFECT ON NEUROHYPOPHYSEAL FUNCTION IN MAN] Legros JJ, Brison J, Franchimont P *C R Soc Biol (Paris) 168: 1442-5, 1974 (Fre)* *DL/76AUG647

ACROMEGALY (drug therapy); ENGLISH ABSTRACT; HUMAN; NEUROPHYSINS (blood); PITUITARY GLAND, POSTERIOR (drug effects, secretion); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN RELEASING HORMONE (blood).

Legros N

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ISLET-CELL, THYROID, AND GASTRIC AUTOANTIBODIES IN DIABETIC IDENTICAL TWINS. Lendrum R, Nelson PG, Pyke DA, Walker G, Gamble DR *Br Med J 1: 553-5, 6 Mar 76 (Eng)* DL/76AUG13

ADOLESCENCE; AGED; AUTOANTIBODIES (analysis); CHILD; DIABETES MELLITUS (immunology); DIABETES MELLITUS, JUVENILE (immunology); DISEASES IN TWINS; FEMALE; HL-A (analysis); HUMAN; ISLANDS OF LANGERHANS (immunology); MALE; MIDDLE AGE; STOMACH (immunology); THYROID GLAND (immunology); TIME FACTORS; TWINS, MONOZYGOTIC.

Lenne Y

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ADULT; CARBOHYDRATE METABOLISM, INBOPN ERRORS (complications); COMPARATIVE STUDY; FRUCTOSE INTOLERANCE (complications); FRUCTOSE (diagnostic use); HUMAN; HYPERLIPEMIA (complications); MALE; TRIGLYCERIDES (blood); URIC ACID (blood).

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ADOLESCENCE; ADULT; ANEUPLOIDY; BODY HEIGHT; ELECTROENCEPHALOGRAPHY; ENGLISH ABSTRACT; HUMAN; INSULIN (blood); JAW ABNORMALITIES (familial & genetic); MALE; MENTAL DISORDERS (familial & genetic); MENTAL RETARDATION (familial & genetic); MOSAICISM; PSYCHOPATHOLOGY; PUBERTY; SEX CHROMOSOME ABNORMALITIES; SEX CHROMOSOMES; SYNDROME.

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THE METABOLIC AND HORMONAL RESPONSE TO GLUCAGON. PART 1. NORMAL SUBJECTS. Goodwin PM, Capildeo R, Harrop JS, Marks V, Rose FC *J Neurol Sci 27: 373-80, Mar 76 (Eng)* DL/76AUG196

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ALCOHOL, ETHYL (pharmacodynamics); ANIMAL; BENZOPYRENE HYDROXYLASE (metabolism); BENZOPYRENES (pharmacodynamics); CELL MEMBRANE (enzymology); COMPARATIVE STUDY; ENZYME ACTIVATION (drug effects); GLUCOSEPHOSPHATASE (metabolism); IN VITRO; MALE; MICROSOMES, LIVER (enzymology); NITROANISOLE O-DEMETHYLASE (metabolism); PHENOBARBITAL (pharmacodynamics); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UDP GLUCURONOSYLTRANSFERASE (metabolism).

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ADOLESCENCE; ADULT; AGED; AORTIC VALVE STENOSIS (pathology); CHILD; FEMALE; GLYCOGEN (isolation & purification); HEART ENLARGEMENT (pathology); HUMAN; MALE; MIDDLE AGE; MITOCHONDRIA, MUSCLE (ultrastructure); MITOCHONDRIAL SWELLING; MYOCARDIUM (ultrastructure).

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ADRENAL MEDULLA (physiology); ADULT; BLOOD PROTEINS (analysis); BLOOD SUGAR (analysis); BODY TEMPERATURE; BODY WEIGHT; CHOLESTEROL (blood); EPINEPHRINE (blood); FATTY ACIDS, NONESTERIFIED (blood); GLYCERIN (blood); HEMATOCRIT; HEMOGLOBINS (analysis); HUMAN; HYDROCORTISONE (blood); LACTATES (blood); LIPIDS (blood); MALE; NOREPINEPHRINE (blood); PLASMA VOLUME; PYRUVATES (blood); RUNNING; SODIUM (blood); SYMPATHETIC NERVOUS SYSTEM (physiology); TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.; WATER-ELECTROLYTE BALANCE.

Maroudas A

FACTORS INVOLVED IN THE NUTRITION OF THE HUMAN LUMBAR INTERVERTEBRAL DISC: CELLULARITY AND DIFFUSION OF GLUCOSE IN VITRO. Maroudas A, Stockwell RA, Nachemson A, Urban J *J Anat 120: 113-30, Sep 75 (Eng)* *DL/76AUG706
ADOLESCENCE; ADULT; AGED; BONE MARROW (anatomy & histology); DIFFUSION; GLUCOSE (metabolism); HUMAN; IN VITRO; INTERVERTEBRAL DISK (metabolism, blood supply, anatomy & histology); LUMBAR VERTEBRAE (metabolism); MIDDLE AGE; PERMEABILITY.

Marozzi P

[BEHAVIOR OF BLOOD SOMATOTROPIN AFTER INTRAMUSCULAR ADMINISTRATION OF GLUCAGON IN PREPUBERAL OBESE SUBJECTS] Lanzara P, Marozzi P, Carmina E, Janni A *Pediatria (Napoli) 83: 81-9, 31 Mar 75 (Ita)* DL/76AUG291

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ADAPTATION OF THE CORONARY CIRCULATION TO PRIMARY MYOCARDIAL DISEASE. Klassen GA, Tanser PH, Marpole D, Agarwal JB *Recent Adv Stud Cardiac Struct Metab 3: 497-506, 1973 (Eng)* *DL/76AUG802

Marrazzo WN

ENZYME IMMOBILIZED IN A PACKED-BED REACTOR: KINETIC PARAMETERS AND MASS TRANSFER EFFECTS. Marrazzo WN, Merson RL, McCoy BJ *Biotechnol Bioeng 17: 1515-28, Oct 75 (Eng)* *DL/76AUG640
ADSORPTION; COMPARATIVE STUDY; ENZYMES (metabolism); FRUCTOSE (metabolism); GLUCOSE (metabolism); KINETICS; MODELS, CHEMICAL; PARTICLE SIZE; SUCRASE (metabolism); SUCROSE (metabolism); SURFACE PROPERTIES.

Marsal K

MATERNAL SMOKING AND FETAL BREATHING MOVEMENTS. Gennser G, Marsal K, Brantmark B *Am J Obstet Gynecol 123: 861-7, 15 Dec 75 (Eng)* *DL/76AUG608

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AMPUTATION; ARTERIAL OCCLUSIVE DISEASES (mortality, surgery); BLOOD VESSEL PROSTHESIS (adverse effects, mortality); DIABETES MELLITUS (complications); FEMALE; FEMORAL ARTERY (surgery); FOLLOW-UP STUDIES; HUMAN; INTERMITTENT CLAUDICATION (surgery); LEG (blood supply); MALE; MIDDLE AGE; POPLITEAL ARTERY (surgery); PROGNOSIS; TRANSPLANTATION, AUTOLOGOUS; VEINS (transplantation).

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EFFECT OF CLONIDINE ON GROWTH HORMONE, PROLACTIN, LUTEINIZING HORMONE, FOLLICLE-STIMULATING HORMONE, AND THYROID-STIMULATING HORMONE IN THE SERUM OF NORMAL MEN. Lal S, Tolis G, Martin SB, Brown GM, Guyda H *J Clin Endocrinol Metab 41: 827-32, Nov 75 (Eng)* *DL/76AUG718

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POTENTIATION OF GLUCAGON SECRETION BY SEROTONIN ANTAGONISTS IN MAN. Marco J, Hedo JA, Martinell J, Calle C, Villanueva ML *J Clin Endocrinol Metab 42: 215-21, Feb 76 (Eng)* DL/76AUG140

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STIMULATION OF 45CA EFFLUX FROM SMOOTH MUSCLE CELLS BY METABOLIC INHIBITION AND HIGH K DEPOLARIZATION. Van Breemen C, Wuytack F, Casteels R, Martinelli B, Campailla E, Ferrari G *Pfluegers Arch 359: 183-96, 9 Sep 75 (Eng)* *DL/76AUG758

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[DIAGNOSIS AND TREATMENT OF INSULINOMA] Borovyi EM, Martyniuk IuM, Nesterenko LN, Syvyi NIu *Vrach Delo 90-1, Mar 74 (Rus)* *DL/76AUG861

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THE EFFECT OF SOMATOSTATIN ON PLASMA INSULIN AND GROWTH HORMONE LEVELS IN BASAL CONDITIONS AND AFTER GLUCAGON IN NORMAL AND ACROMEGALIC SUBJECTS. Massara F, Porzio G, Camanni F, Molinatti GM *Acta Diabetol Lat 12: 219-31, May-Aug 75 (Eng)* DL/76AUG404
ACROMEGALY (blood, physiopathology); ADULT; FEMALE; GLUCAGON (pharmacodynamics); HUMAN; IN VITRO; INSULIN (blood); MALE; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (blood).

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AMYLASE (analysis); ANIMAL EXPERIMENTS (analysis); ANIMALS, NEWBORN; DIABETES MELLITUS (therapy); INSULIN (analysis); ISLANDS OF LANGERHANS (transplantation); PANCREAS (enzymology); RATS; TIME FACTORS; TISSUE DONORS; TRANSPLANTATION, HOMOLOGOUS (transplantation); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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ALKALINE PHOSPHATASE (blood); DIABETES MELLITUS (metabolism); FEMALE; HUMAN; LACTATE DEHYDROGENASE (blood); MALE; SEX FACTORS; ZINC (blood, metabolism, urine).

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ALLOXAN DIABETES (blood); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); DEPRESSION, CHEMICAL; DIABETES MELLITUS (blood); FEMALE; HUMAN; HYPOGLYCEMIC AGENTS; MALE; MIDDLE AGE; PHENFORMIN (pharmacodynamics); PLANT EXTRACTS (pharmacodynamics); RABBITS.

Mathov E

RESEARCH ON A NEW TYPE OF ANTIINSULIN ANTIBODY IN A DIABETIC FEMALE PATIENT: THE CYTOTOXIC ANTIBODY. ANTIINSULIN CYTOTOXIC ANTIBODY. Mathov E, Greiding L *Allergol Immunopathol (Madr) 4: 1-14, Jan-Feb 76 (Eng)* DL/76AUG424
AGED; BINDING, COMPETITIVE; COMPLEMENT; CYTOTOXICITY TESTS, IMMUNOLOGIC; DESENSITIZATION; DIABETES MELLITUS (immunology); FEMALE; HUMAN; IGE (analysis); IGG (analysis); INSULIN ANTIBODIES (analysis); INSULIN RESISTANCE; LEUKOCYTES (immunology); PASSIVE TRANSFER.

Matsuda I

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Matsuo T

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ADULT; BLOOD SUGAR (analysis); CASE REPORT; ELECTROENCEPHALOGRAPHY; ENGLISH ABSTRACT; HUMAN; HYPERINSULINISM (complications, diagnosis); MALE; PSYCHOSES, ORGANIC (complications).

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[METABOLIC EFFECT OF A CARBOHYDRATE COMBINATION DURING SIMULTANEOUS AMINO ACID INFUSION] Berg G, Matzkies F, Heid H, Fekl W *Z Ernaehrungswiss 14: 163-74, Sep 75 (Ger)* DL/76AUG379

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ADENOCARCINOMA (metabolism); ANIMAL EXPERIMENTS (analysis); ENDOPLASMIC RETICULUM (ultrastructure); FEMALE; HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); MAMMAE (metabolism, ultrastructure); MAMMARY NEOPLASMS, EXPERIMENTAL (metabolism,

McCarty KS Sr

pathology); MICE; MICE, INBRED C3H; MICROSCOPY, ELECTRON; MILK PROTEINS (biosynthesis); MITOSIS (drug effects); MONOGRAPH (mortality); ORGAN CULTURE; PROLACTIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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DIABETES MELLITUS (metabolism); HUMAN; INSULIN (metabolism); POSTOPERATIVE COMPLICATIONS (prevention & control); SURGERY, OPERATIVE; SURGICAL NURSING.

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ADENYL CYCLASE ACTIVITY IN THE HYPOXIC HEART. McNamara DB, Sulakhe PV, Singh JN, Dhalla NS *Recent Adv Stud Cardiac Struct Metab 3: 303-9, 1973* (*Eng*) *DL/76AUG797

ADENYL CYCLASE (metabolism); ANIMAL EXPERIMENTS; ANOXIA (metabolism); FLUORIDES (pharmacodynamics); HEART (drug effects); MALE; MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (enzymology); NOREPINEPHRINE (pharmacodynamics); RATS; TIME FACTORS; 3,5-CYCLIC AMP PHOSPHODIESTERASE (metabolism).

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ANIMAL EXPERIMENTS; CAFFEINE (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG SYNERGISM; ENZYME ACTIVATION; FEMALE; GLYCOGEN PHOSPHORYLASE (metabolism); GUINEA PIGS; MALE; MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (enzymology); NICOTINE (pharmacodynamics); NOREPINEPHRINE (pharmacodynamics); PAPAVERINE (pharmacodynamics); PHOSPHODIESTERASES (antagonists & inhibitors); STRUCTURE-ACTIVITY RELATIONSHIP; THEOBROMINE (pharmacodynamics); THEOPHYLLINE (pharmacodynamics); XANTHINES (pharmacodynamics); 3,5-CYCLIC AMP PHOSPHODIESTERASE (antagonists & inhibitors).

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CORRELATION OF DEXTROSTIX VALUES WITH TRUE GLUCOSE IN THE RANGE LESS THAN 50 MG/DL. Frantz ID 3d, Medina G, Taeusch HW Jr *J Pediatr 87: 417-20, Sep 75* (*Eng*) *DL/76AUG722

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EFFECT OF POLYCHLORINATED BIPHENYLS AND THIAMIN DEFICIENCY ON LIVER METABOLISM IN GROWING RATS. Berdanier CD, Tobin RB, Nielsen RC, Mehlman MA, Veech RL *J Toxicol Environ Health 1: 91-105, Sep 75* (*Eng*) *DL/76AUG732

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DIURNAL VARIATION IN BLOOD SUGAR AND SERUM INSULIN IN RESPONSE TO GLUCOSE AND/OR GLUCAGON IN HEALTHY SUBJECTS. Melani F, Verrillo A, Marasco M, Rivellese A, Osorio J, Bertolini MG *Horm Metab Res 8: 85-8, Mar 76* (*Eng*) DL/76AUG113

ADULT; BLOOD SUGAR (metabolism); BODY HEIGHT; BODY WEIGHT; CIRCADIAN RHYTHM; DIURNAL RHYTHM; FEMALE; GLUCAGON (blood); HUMAN; INSULIN (blood); MALE.

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[AMYLOIDOSIS OF THE ISLANDS OF LANGERHANS AND ITS EFFECTS WITH REGARD TO THEIR CELLULAR COMPONENTS] Melato M, Antonutto G, Giarelli L, Mlac M *Pathologica 67: 109-18, Mar-Apr 75* (*Ita*) DL/76AUG288

ADULT; AGE FACTORS; AGED; AMYLOIDOSIS (pathology); DIABETES MELLITUS (pathology); ENGLISH ABSTRACT; FEMALE; HUMAN; ISLANDS OF LANGERHANS (pathology); MALE; MIDDLE AGE.

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STUDIES ON PLASMA FREE-FATTY-ACID METABOLISM AND TRIGLYCERIDE SYNTHESIS OF BROWN ADIPOSE TISSUE IN VIVO DURING COLD-INDUCED THERMOGENESIS OF THE NEWBORN RABBIT. Schenk H, Heim T, Mende T, Varga F, Goetze E *Eur J Biochem 58: 15-22, 1 Oct 75* (*Eng*) *DL/76AUG675

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LOWERING OF PLASMA CHOLESTEROL LEVELS IN FREE-LIVING ADOLESCENT MALES: USE OF NATURAL AND SYNTHETIC POLYUNSATURATED FOODS TO PROVIDE BALANCED FAT DIETS. Stein EA, Mendelsohn D, Fleming M, Barnard GD, Carter KJ, du Toit PS, Hansen JD, Bersohn I *Am J Clin Nutr 28: 1204-16, Nov 75* (*Eng*) *DL/76AUG879

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[STUDY ON THE CHRONIC TOXICITY OF 1-(4-CYCLOHEXYLUREIDOPHENOXY)-2-HYDROXY-3-TERT-BUTYLAMINOPROPANE(TALINOLOL, CORDANUM, 02-115) IN THE RAT AND THE BEAGLE] Bartsch R, Merbt EM, Riedel H *Pharmazie 30: 659-68, Oct 75 (Ger)* *DL/76AUG583

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DIABETES MELLITUS (diagnosis); DIAGNOSIS, LABORATORY; GENERAL PRACTICE; HUMAN; KIDNEY DISEASES (diagnosis); LIVER DISEASES (diagnosis); PATIENT CARE PLANNING.

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ANIMAL EXPERIMENTS (analysis); BRAIN (pathology); FEEDING BEHAVIOR (physiology); FEMALE; GLUCOSE (pharmacodynamics); HYPOTHALAMUS (physiology); INSULIN (physiology); RATS; TUBE FEEDING; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); VAGUS NERVE (physiology).

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ADULT; ALBUMINS (therapeutic use); BICARBONATES (therapeutic use); CASE REPORT; COMA (drug therapy); DIURESIS; ERYTHROCYTES; GLAUCOMA (drug therapy); GLYCERIN (adverse effects, therapeutic use); HUMAN; HYPOTONIC SOLUTIONS; INSULIN (therapeutic use); KETONE BODIES (blood); KIDNEY FAILURE, CHRONIC (chemically induced); MALE; OSMOLAR CONCENTRATION; SODIUM CHLORIDE (therapeutic use).

Panov AV

THE POSSIBLE ROLE OF PALMITOYL-COA IN THE REGULATION OF THE ADENINE NUCLEOTIDES TRANSPORT IN MITOCHONDRIA UNDER DIFFERENT METABOLIC STATES. I. COMPARISON OF LIVER MITOCHONDRIA FROM STARVED AND FED RATS. Panov AV, Konstantinov YM, Lyakhovich VV *J Bioenerg 7: 75-85, May 75 (Eng)* *DL/76AUG714
ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; APYRASE (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; COENZYME A (pharmacodynamics); KINETICS; MEMBRANES (metabolism, drug effects); MITOCHONDRIA, LIVER (metabolism, drug effects); PALMITIC ACIDS (pharmacodynamics); RATS; STARVATION (metabolism).

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CHARGE SEPARATION AND ENERGY TRANSFER IN THE MITOCHONDRIAL MEMBRANE. Papa S, Guerrrieri F, Lorusso M *Biophys J 15: 963-7, Sep 75 (Eng)* *DL/76AUG638
ANIMAL; BIOLOGICAL TRANSPORT; CATTLE; CYTOCHROME C (metabolism); CYTOCHROME OXIDASE (metabolism); ELECTRON TRANSPORT; ENERGY TRANSFER; MEMBRANES (metabolism); MITOCHONDRIA, MUSCLE (metabolism, enzymology); MODELS, CHEMICAL; MYOCARDIUM (metabolism, enzymology); OXIDATION-REDUCTION; PROTONS.

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THE INTERACTION OF PHOSPHOLIPID VESICLES WITH MAMMALIAN CELLS IN VITRO. Papahadjopoulos D, Poste G, Mayhew E *Biochem Soc Trans 3: 606-8, 1975 (Eng)* *DL/76AUG502
ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; CALCIUM (pharmacodynamics); CELL FUSION (drug effects); CELL MEMBRANE (metabolism, drug effects); EDTA (pharmacodynamics); ENDOCYTOSIS; IN VITRO; LIPOSOMES (metabolism); PHOSPHOLIPIDS (metabolism).

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CALCIUM; LECITHINS; MACROMOLECULAR SYSTEMS; MEMBRANES, ARTIFICIAL; PHOSPHATIDYL GLYCEROLS; PHOSPHATIDYL SERINE; PHOSPHOLIPIDS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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Papic Z

COMPARISON BETWEEN CYTOCHEMICAL CHANGES, CONCENTRATION OF PAS-POSITIVE SUBSTANCES IN PERIPHERAL BLOOD LYMPHOCYTES AND CHANGES OF BLOOD GLUCOSE VALUES DURING THE ORAL GLUCOSE TOLERANCE TEST. Papic Z, Katona G, Crepinko I, Skrabalo Z *Acta Diabetol Lat 12: 232-8, May-Aug 75 (Eng)* DL/76AUG405
BLOOD SUGAR (analysis); DIABETES MELLITUS (diagnosis); GLUCOSE TOLERANCE TEST; GLYCOGEN (blood); HUMAN; LYMPHOCYTES (analysis).

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PROCEEDINGS: NEW SYNTHETIC DERIVATIVES OF NATURAL CYCLIC NUCLEOTIDES: THEIR EFFECT ON PLATELET BEHAVIOUR. Pareti FI, Mannucci L, Carrera D, Mannucci PM *Thromb Diath Haemorrh 34: 335-6, 30 Sep 75 (Eng)* *DL/76AUG851
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (analogs & derivatives); ANIMAL; BLOOD PLATELETS (drug effects); BLOOD SUGAR (metabolism); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (analogs & derivatives); HEMODYNAMICS (drug effects); INOSINE CYCLIC 3,5 MONOPHOSPHATE (analogs & derivatives); NUCLEOTIDES, CYCLIC (pharmacodynamics); PLATELET AGGREGATION (drug effects); RATS.

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[PATHOGENESIS OF DISORDERS OF THE THYROID GLAND FUNCTION IN PREGNANCY] Bobik IuI, Kasatkina LA, Pashchenko AE, Mitso ASh, Fabri ZI *Vopr Okhr Materin Det 19: 71-3, Feb 74 (Rus)* *DL/76AUG859

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[EXPERIMENTAL STUDY OF MANGANESE CHLORIDE TOXICITY] Pashinskii VG, Tuzlukov AP, Rassokhin VM, Arefeva AK, Sedova KS *Farmakol Toksikol 38: 618-20, Sep-Oct 75 (Rus)* *DL/76AUG680
ADRENAL GLANDS (drug effects); ANIMAL; BLOOD CELLS (drug effects); BLOOD SUGAR (analysis); DOSE-RESPONSE RELATIONSHIP, DRUG; ENGLISH ABSTRACT; LETHAL DOSE 50; MANGANESE (toxicity, blood); MICE; MUSCLES (drug effects); NITROGEN (blood); RABBITS; RATS; SKIN (drug effects); TIME FACTORS.

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[INFLUENCE OF CALCITONIN ON INSULIN SECRETION AFTER INTRAVENOUS ADMINISTRATION OF GLUCOSE] Passeri M, Carapezzi C, Ceccato S, Cucinotta D, Palummeri E *G Clin Med 55: 362-70, May 74 (Ita)* DL/76AUG98
CALCITONIN (pharmacodynamics); ENGLISH ABSTRACT; GLUCOSE (pharmacodynamics); HUMAN; INSULIN (blood, secretion); ISLANDS OF LANGERHANS (drug effects, secretion).

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CYSTOID MACULOPATHY IN DIABETICS. Patz A. *Arch Ophthalmol 94: 761-8, May 76 (Eng)* DL/76AUG464
ADULT; CASE REPORT; DIABETIC RETINOPATHY (diagnosis, surgery); EDEMA (etiology, surgery); FEMALE; FUNDUS FLUORESCENCE PHOTOGRAPHY; HUMAN; LASER COAGULATION; MACULA LUTEA; MALE; MIDDLE AGE; VISUAL ACUITY.

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ALTERED GLUCOSE METABOLISM IN METASTATIC CARCINOMA. Holroyde CP, Gabuzda TG, Putnam RC, Paul P, Reichard GA *Cancer Res 35: 3710-4, Dec 75 (Eng)* *DL/76AUG477

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[METABOLISM OF LIVER POLYPHOSPHOISOSITIDES IN RATS DURING STIMULATING AND DEPRESSING INFLUENCES ON THE ORGANISM] Kiselev GV, Pavlinova LI *Biull Eksp Biol Med 80: 40-3, Sep 75 (Rus)* DL/76AUG10

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[INSULIN HYPOGLYCEMIA, A FUNCTIONAL TEST OF THE STATE OF THE HYPOTHALAMO-HYPOPHYSEO-ADRENAL SYSTEM IN OBESITY] Dobrev D, Pavlov D, Stoilov I. *Vutr Boles 14: 73-8, 1975 (Bul)* DL/76AUG370

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[STIMULATION OF ADRENOCORTICAL SECRETION IN HEALTHY PERSONS WITH HYPOGLYCEMIA PROVOKED BY INSULIN] Kolebinov NK, Ankov VK, Pavlov DN *Vutr Boles 14: 97-100, 1975 (Bul)* DL/76AUG367

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ADULT; AGED; AORTA, ABDOMINAL (enzymology); AORTIC DISEASES (enzymology, familial & genetic); ARTERIOSCLEROSIS (enzymology); ATHEROSCLEROSIS (enzymology, familial & genetic); CLONE CELLS; FATTY STREAK, ARTERIAL (enzymology, familial & genetic); FEMALE; GENETICS, BIOCHEMICAL; GLUCOSEPHOSPHATE DEHYDROGENASE (analysis); HUMAN; ISOENZYMES (analysis); MIDDLE AGE;

Peci-Popovic E

PLAQUE ASSAY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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[INFLUENCE OF CHLORPROPAMIDE ON THE EXCRETION OF ELECTROLYTES IN DIABETES INSIPIDUS] Peci-Popovic E, Janjic M, Kicic M *Glas Srp Akad Nauka [Med] 77-84, 1975 (Ser)* DL/76AUG104
ADOLESCENCE; ADULT; CHLORPROPAMIDE (pharmacodynamics, therapeutic use); DIABETES INSIPIDUS (drug therapy, urine); ELECTROLYTES (urine); FEMALE; HUMAN; MALE; OSMOSIS (drug effects); WATER-ELECTROLYTE BALANCE (drug effects).

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ADENOSINE DIPHOSPHATE (metabolism, pharmacodynamics); ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ADENYLYL IMIDODIPHOSPHATE (pharmacodynamics, metabolism); AUROVERTIN (pharmacodynamics); BINDING SITES; BINDING, COMPETITIVE; KINETICS; MAGNESIUM (pharmacodynamics); MITOCHONDRIA, LIVER (enzymology); MODELS, BIOLOGICAL; PHOSPHATES (metabolism); PHOSPHATES, INORGANIC (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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ANIMAL EXPERIMENTS (analysis); DOGS; FATS (pharmacodynamics); FEMALE; GASTROINTESTINAL HORMONES (metabolism, pharmacodynamics); GLUCOSE (metabolism); INSULIN (secretion); MALE; PANCREAS (metabolism); PEPTIDES (metabolism, pharmacodynamics); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); STIMULATION, CHEMICAL; SWINE; TIME FACTORS.

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EFFECT OF PSYCHIC STRESS OF EXAMINATION ON SERUM GROWTH HORMONE, SERUM INSULIN, AND PLASMA RENIN ACTIVITY. Syvalahti E, Lammintausta R, Pekkarinen A *Acta Pharmacol Toxicol (Kbh) 38: 344-52, Apr 76 (Eng)* DL/76AUG418

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CHANGES IN MUSCLE MITOCHONDRIAL LIPID COMPOSITION RESULTING FROM TRAINING AND EXHAUSTIVE EXERCISE. Dohm GL, Barakat H, Stephenson TP, Pennington SN, Tapscott EB *Life Sci 17: 1075-80, 10 Oct 75 (Eng)* *DL/76AUG574

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[CHANGES IN THE SECRETION OF SOMATOTROPIN AND INSULIN IN HYPERTHYROIDISM] Cavagnini F, Peracchi M, Panerai AE, Pinto M *Quad Sclavo Diagn 11: 372-81, Jun 75 (Ita)* DL/76AUG328

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THE SIGNIFICANCE OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCY IN PREGNANCY. Perkins RP *Am J Obstet Gynecol 125: 215-23, 15 May 76 (Eng)* DL/76AUG431
ADOLESCENCE; ADULT; AGE FACTORS; APGAR SCORE; CAUCASIAN RACE; DELIVERY; DIABETES MELLITUS (complications); DRUG THERAPY (adverse effects); ERYTHROBLASTOSIS, FETAL (etiology); ETHNIC GROUPS; FEMALE; GLUCOSEPHOSPHATE DEHYDROGENASE DEFICIENCY (complications, familial & genetic, metabolism); HEMATOCRIT; HUMAN; INFANT, NEWBORN; MALE; NEGROID RACE; NEW YORK CITY; PREGNANCY COMPLICATIONS, HEMATOLOGIC; PREGNANCY; RH-HR BLOOD-GROUP SYSTEM; SICKLE CELL TRAIT (complications); WEST INDIES (ethnology).

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IN VIVO CHEMOTAXIS OF RAT LEUKOCYTES IN THE PRESENCE OF CIRCULATING CHYLOMICRONS. Perper RJ, Oronsky AL, Sanda M, Stecher VJ *Atherosclerosis 22: 257-69, Sep-Oct 75 (Eng)* *DL/76AUG923
ANIMAL; CHEMOTAXIS; CHOLESTEROL (blood); CHYLOMICRONS (blood); DIET; FATTY LIVER (etiology); LEUKOCYTES (physiology, analysis); MALE; MONOCYTES (physiology, transplantation); NEUTROPHILS (physiology, transplantation); PERITONEAL FLUID (cytology); PHAGOCYTOSIS; RATS; TRANSPLANTATION, HOMOLOGOUS; TRIGLYCERIDES (blood).

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ANIMAL; BILE ACIDS AND SALTS (metabolism); CECUM (metabolism); CHOLIC ACIDS (metabolism); COLECTOMY; COLON (metabolism); FEMALE; GLUCOSE (metabolism); ILEUM (surgery); INTESTINAL ABSORPTION; INTESTINE, SMALL (surgery); JEJUNUM (metabolism, surgery); PERFUSION; POTASSIUM (metabolism); RATS; SODIUM (metabolism); WATER (metabolism).

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[CHARACTERISTICS OF CHEMICAL DIABETES MELLITUS IN WOMEN] Petcu D, Motocu M, Gligore V *Rev Med Intern [Med Intern] 28: 145-51, Mar-Apr 76 (Rum)* DL/76AUG334
ADULT; AGE FACTORS; CHOLELITHIASIS (complications); DIABETES MELLITUS (complications, familial & genetic); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; OBESITY (complications); PREDIABETIC STATE (complications); PREGNANCY IN DIABETES; PREGNANCY; RISK; RUMANIA); RURAL POPULATION; SEX FACTORS; URBAN POPULATION.

Peterkofsky A

INTERACTION OF ENZYME I OF THE PHOSPHOENOLPYRUVATE:SUGAR PHOSPHOTRANSFERASE SYSTEM WITH ADENYLATE CYCLASE OF ESCHERICHIA COLI. Peterkofsky A, Gazdar C *Proc Natl Acad Sci USA 72: 2920-4, Aug 75 (Eng)* *DL/76AUG760
ADENYL CYCLASE (metabolism); ENZYME INDUCTION (drug effects); ESCHERICHIA COLI (enzymology); GENOTYPE; GLUCOSE (pharmacodynamics); MUTATION; PHOSPHOENOLPYRUVATE (pharmacodynamics); PHOSPHOTRANSFERASES (metabolism); SPECIES SPECIFICITY; TOLUENE (pharmacodynamics).

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[RECEPTORS FOR POLYPEPTIDE HORMONES. PHYSIOLOGIC AND PATHOGENETIC SIGNIFICANCE] Frowein J, Petersen KG *Dtsch Med Wochenschr 101: 623-7, 16 Apr 76 (Ger)* DL/76AUG62

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AMINO ACIDS (metabolism, blood); ANIMAL EXPERIMENTS; BLOOD PRESSURE; DOGS; HEART ENLARGEMENT (metabolism); HEART FAILURE, CONGESTIVE (metabolism); HEART (anatomy & histology); LEUCINE (metabolism); MUSCLE PROTEINS (metabolism, biosynthesis); ORGAN WEIGHT.

Petroboni V

[CORONARY RISK FACTORS AND ISCHEMIC HEART DISEASE IN BUS DRIVERS AND CONDUCTORS] Rusconi C, Arosio G, Orlando G, Petroboni V, Riva S, Gola E, Benedini G, Cicogna R, Frau G, Prandini BD, Spandrio L, Feroldi P *Minerva Cardioangiol 23: 718-27, Nov 75 (Ita)* DL/76AUG275

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[ULTRASTRUCTURE OF THE STRIA VASCULARIS OF THE COCHLEA IN ALLOXAN DIABETES] Kozlov MIa, Onegova RF, Petrov VS, Sokoloverova IM *Zh Ushn Nos Gorl Bolezn 36-40, Mar-Apr 76 (Rus)* DL/76AUG393

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STUDIES ON NOREPINEPHRINE-INDUCED EFFLUX OF FREE FATTY ACID FROM HAMSTER BROWN-ADIPOSE-TISSUE CELLS. Bieber LL, Pettersson B, Lindberg O *Eur J Biochem 58: 375-81, 15 Oct 75 (Eng)* *DL/76AUG677

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IMMEDIATE FUNDUS COMPLICATIONS AFTER RETINAL SCATTER PHOTOCOAGULATION. I. CLINICAL PICTURE AND PATHOGENESIS. Huamonte FU, Peyman GA, Goldberg MF, Locketz A *Ophthalmic Surg 7: 88-99, Spring 76 (Eng)* DL/76AUG280

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[A FURTHER CASE OF MALIGNANT HYPERPYREXIA AND ITS TREATMENT WITH LIDOCAINE, METHYLPREDNISOLONE AND VERAPAMIL (IPROVERATRIL) (AUTHORS TRANSL)] Csongrady A, Bake I, Pfander C, Tarmann H, Schneider M, Buttazzoni E *Anaesthesist 25: 80-1, Feb 76 (Ger)* DL/76AUG446

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AMPHETAMINE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BRAIN (drug effects, metabolism); CATECHOLAMINES (metabolism); CONVULSIONS (chemically induced, metabolism); DOPAMINE (physiology); ELECTROSHOCK; FEMALE; GUANETHIDINE (pharmacodynamics); INSULIN; MALE; METHYLDOPA (pharmacodynamics); METHYLTYROSINES (pharmacodynamics); MICE; MONOAMINE OXIDASE INHIBITORS (pharmacodynamics); MONOGRAPH (mortality); NOREPINEPHRINE (physiology); PENTYLENETETRAZOLE; RATS; RESERPINE (pharmacodynamics); SEMICARBAZIDES; SEROTONIN (physiology); TRANYLCYPROMINE (pharmacodynamics).

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MUOCARDIAL INFARCTION AND ESTROGEN THERAPY IN POST-MENOPAUSAL WOMEN. Rosenberg L, Armstrong B, Phil D, Jick H *N Engl J Med 294: 1256-9, 3 Jun 76 (Eng)* DL/76AUG267

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ANESTHESIA, INHALATION; ANIMAL; BABOONS (blood); BLOOD SUGAR (analysis); CALCIUM (blood); CHLORIDES (blood); COMPARATIVE STUDY; CREATININE (blood); FEMALE; HALOTHANE; HYPOTHERMIA, INDUCED (veterinary); MALE; MONKEYS; POTASSIUM (blood); SERUM ALBUMIN (analysis); SEX FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; URIC ACID (blood).

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EFFECTS OF HIGH CARBOHYDRATE, HIGH FAT, OR HIGH PROTEIN DIETS ON GLUCOSE OXIDATION BY ISOLATED INTESTINAL EPITHELIAL CELLS OF THE CHICK. Raheja KL, Tepperman J, Tepperman HM *J Nutr 105: 1433-9, Nov 75 (Eng)* *DL/76AUG548

ADAPTATION, PHYSIOLOGICAL; ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; BLOOD SUGAR (metabolism); CHICKENS; DIETARY CARBOHYDRATES (administration & dosage); DIETARY FATS (administration & dosage); DIETARY PROTEINS (administration & dosage); EPITHELIAL CELLS (metabolism); FASTING; GLUCOSE (metabolism); INTESTINAL MUCOSA (physiology); INTESTINES (physiology); METHYLGLUCOSIDES (metabolism); ORGAN WEIGHT; OXIDATION-REDUCTION; SEROUS MEMBRANE (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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[DIABETIC COMA AS A TASK FOR INTENSIVE THERAPY] Singer P, Rahn A, Schliack V *Z Gesamte Inn Med 30: 161-2 concl, 1 Sep 75 (Ger)* DL/76AUG381

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[EXPERIMENTAL PANCREATIC ALLOTRANSPLANTATION IN DOGS: BIOCHEMICAL ASPECTS AND EVOLUTION] Ellenbogen G, Raia AA, Zilberstein B, Pollara WM, Neto OB, Morimoto RY, Pinotti HW *Rev Hosp Clin Fac Med Sao Paulo 30: 340-4, Jul-Aug 75 (Por)* *DL/76AUG841

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EYE (embryology); HUMAN; HYPOGLYCEMIA (complications); OPHTHALMOLOGY; PREVENTIVE MEDICINE; RETINA (cytology, metabolism); REVIEW; VISION DISORDERS (etiology); VISUAL PATHWAYS (cytology, embryology).

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ANIMAL EXPERIMENTS (analysis); BONE DEVELOPMENT (drug effects); CALCIUM (metabolism); CARTILAGE (growth & development); COLLAGEN (biosynthesis); DIHYDROXYCHOLECALCIFEROLS (pharmacodynamics); HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); ORGAN CULTURE; PARATHYROID HORMONE (pharmacodynamics); PHOSPHATES (biosynthesis, pharmacodynamics); PROLINE (metabolism); PROSTAGLANDINS E (pharmacodynamics); PROTEINS (metabolism); RADIUS (embryology); RATS; SKULL (embryology); SOMATOMEDIN (pharmacodynamics); ULNA (embryology).

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[RENAL GLYCOSURIA (POSSIBILITY OF RELATION TO DIABETES MELLITUS)] Rames I, Vankova B *Vnitr Lek 22: 268-73, Mar 76 (Cze)* DL/76AUG361

ADULT; DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; GLYCOSURIA, RENAL (etiology); HUMAN; MALE; MIDDLE AGE.

[NORMOGLYCEMIC GLYCOSURIA IN PREGNANT WOMEN. DISCUSSION CONTRIBUTION TO THE ARTICLE OF ASSISTANT PROF. PAV AND SPERL, M.D. TUBULAR EXTRACTION OF GLUCOSE IN PREGNANT WOMEN VNITRNI LEK. 21, 1975, 12, P.1166-9] Rames I *Vnitr Lek 22: 401-2, Apr 76 (Cze)* DL/76AUG364

ADOLESCENCE; ADULT; FALLOPIAN TUBES; FEMALE; GLYCOSURIA (diagnosis); HUMAN; PREGNANCY IN DIABETES (diagnosis); PREGNANCY TRIMESTER, THIRD; PREGNANCY.

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ANIMAL EXPERIMENTS; BIOLOGICAL ASSAY; CEREBRAL CORTEX (analysis); HYPOTHALAMUS (analysis); LH-FSH RELEASING HORMONE (analysis, immunology); MALE; MICROSCOPY, ELECTRON; ORGAN SPECIFICITY; RADIOIMMUNOASSAY; RATS; SUBCELLULAR FRACTIONS (analysis); SYNAPTOSOMES (analysis, ultrastructure).

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EFFECT OF FEEDING AND FASTING ON THE EARLY STEPS OF GLUCAGON ACTION IN ISOLATED RAT LIVER CELLS. Fouchereau-Peron M, Rancon F, Freychet P, Rosselin G *Endocrinology 98: 755-60, Mar 76 (Eng)* DL/76AUG71

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE DIPHOSPHATE (pharmacodynamics); ADENOSINE MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS; BINDING SITES; CATTLE; CORPUS LUTEUM (metabolism); CYTOSINE NUCLEOTIDES (pharmacodynamics); DRUG SYNERGISM; FEMALE; GONADOTROPINS, CHORIONIC (metabolism); GUANOSINE TRIPHOSPHATE (pharmacodynamics); HUMAN; KINETICS; NUCLEOTIDES, CYCLIC (pharmacodynamics); PROTEIN BINDING; RECEPTORS, HORMONE (drug effects); RIBONUCLEOTIDES (pharmacodynamics); THYMINE NUCLEOTIDES (pharmacodynamics); URACIL NUCLEOTIDES (pharmacodynamics).

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EFFECT OF INSULIN HYPOGLYCAEMIA ON ADRENOCORTICAL FUNCTION AND BLOOD PLASMA VITAMIN E AND CHOLESTEROL LEVELS IN SUCKLING AND WEANED PIGLETS. Dvorak M, Raszyk J *Physiol Bohemoslov 25: 7-11, 1976 (Eng)* DL/76AUG325

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RADIOIMMUNOASSAY. Ratcliffe FG *Recent Adv Clin Nucl Med 1: 151-87, 1975 (Eng)* [119] DL/76AUG332

ALDOSTERONE (blood); ALPHA FETOPROTEINS (analysis); ANGIOTENSIN II (blood); AUSTRALIA ANTIGEN (analysis); AUTOMATIC DATA PROCESSING; CARCINOEMBRYONIC ANTIGEN (analysis); CORTICOTROPIN (blood); DIGOXIN (blood); DIPHENYLHYDANTOIN (analysis); ESTRADIOL (blood); FACTOR VIII (analysis); FERRITIN (blood); HUMAN; IMMUNOGLOBULINS (analysis); INSULIN (blood); INTRINSIC FACTOR (analysis); ISOTOPE LABELING (methods); LH (blood); MORPHINE (analysis); PARATHYROID HORMONE (blood); PLACENTAL LACTOGEN (analysis); QUALITY CONTROL; RADIOIMMUNOASSAY (methods); REVIEW; THYROTROPIN (blood).

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AMINO ACID SEQUENCE; ANIMAL EXPERIMENTS (analysis); BOMBESIN (secretion); CATTLE; DOGS; ENTEROGASTRONE (physiology); GASTROINTESTINAL HORMONES (biosynthesis, physiology, secretion); GLUCAGON (physiology); HUMAN; INTESTINAL SECRETIONS (physiology); MOLECULAR WEIGHT; NOMENCLATURE; PANCREATIC HORMONES (physiology); PEPTIDES; RATS; REVIEW; SECRETIN (physiology); SOMATOTROPIN RELEASE INHIBITING HORMONE (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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EXERTION; HELIUM (pharmacodynamics); HUMAN; MALE; SOMATOTROPIN (blood); TIME FACTORS.

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INDUCTION OF HYPERTRIGLYCERIDEMIA BY A LOW-FAT DIET. Ginsberg H, Olefsky JM, Kimmerling G, Crapo P, Reaven GM *J Clin Endocrinol Metab 42: 729-35, Apr 76 (Eng)* DL/76AUG145

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); DIBUTYRYL CYCLIC AMP (pharmacodynamics); EPITHELIAL CELLS (ultrastructure); INSULIN (pharmacodynamics); LENS, CRYSTALLINE (drug effects, ultrastructure); MITOSIS (drug effects); ORGAN CULTURE; PAPAVERINE (pharmacodynamics); RABBITS; RIBOSOMES (ultrastructure); THEOPHYLLINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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MULTIVARIATE ANALYSIS OF THE RELATIONSHIP OF SIX VARIABLES TO BLOOD PRESSURE: FINDINGS FROM CHICAGO COMMUNITY SURVEYS, 1965--1971. Stamler J, Stamler R, Rhomberg P, Dyer A, Berkson DM, Reedus W, Wannamaker J *J Chronic Dis 28: 499-525, Nov 75 (Eng)* *DL/76AUG542

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CARDIOMYOPATHY AND REGIONAL SCAR IN DIABETES MELLITUS. Regan TJ, Ahmed SS, Levinson GE, Oldewurtel HA, Ahmad MR, Haider B, Lyons MM *Trans Assoc Am Physicians 88: 217-23, 1975 (Eng)* DL/76AUG357
ALLOXAN DIABETES (complications); ANIMAL EXPERIMENTS (analysis); CARDIAC OUTPUT; CICATRIX; CORONARY CIRCULATION; DIABETES MELLITUS (complications, physiopathology); DOGS; HEART DISEASES (etiology); HEART (physiopathology); HUMAN; MYOCARDIUM (ultrastructure); PRESSURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ALDOSTERONE (metabolism); ANGIOTENSIN (metabolism); CELL MEMBRANE; ENDOCRINE DISEASES (metabolism); ENDOCRINOLOGY; ENGLISH ABSTRACT; FEMALE; FETUS (metabolism); FUTUROLOGY; GASTROINTESTINAL SYSTEM (metabolism); GROWTH; HUMAN; MOLECULAR WEIGHT; PLACENTA (metabolism); PREGNANCY; RECEPTORS, HORMONE; RENIN (metabolism); REVIEW; SOMATOTROPIN RELEASE INHIBITING HORMONE (metabolism); THYMUS GLAND (metabolism).

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ADOLESCENCE; ADULT; BODY TEMPERATURE; CARBON DIOXIDE (blood); CIRCADIAN RHYTHM; DIET, REDUCING; FEMALE; GLUCAGON (blood); HUMAN; HYDROCORTISONE (blood); INSULIN (blood); MONOGRAPH (mortality); NITROGEN (urine); OBESITY (diet therapy); OXYGEN (blood); REVIEW.

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ADIPOSE TISSUE (metabolism); ADOLESCENCE; ADULT; AGE FACTORS; AGED; ANIMAL EXPERIMENTS (analysis); CARBOHYDRATES (metabolism); CHILD; CHOLESTEROL (blood); DIABETES MELLITUS (etiology); DIETARY CARBOHYDRATES (adverse effects, metabolism); DIETARY FATS; FEMALE; HEART DISEASES (etiology); HEXOSES (pharmacodynamics); HUMAN; HYPERLIPEMIA (etiology); INSULIN (pharmacodynamics); LIPIDS (metabolism); MALE; MIDDLE AGE; MONOGRAPH (mortality); POLYSACCHARIDES (pharmacodynamics); REVIEW; SEX FACTORS; STARCH (pharmacodynamics); SUCROSE (pharmacodynamics); TRIGLYCERIDES (blood).

EFFECTS OF SUGARS ON LEUCINE AND LYSINE UPTAKE BY INTESTINAL CELLS FROM RATS FED SUCROSE AND STOCK DIETS. Reiser S, Michaelis OE 4th, Hallfrisch J *Proc Soc Exp Biol Med 150: 110-4, Oct 75 (Eng)* *DL/76AUG777
ANIMAL; BIOLOGICAL TRANSPORT; CARBOHYDRATES (pharmacodynamics); DIETARY CARBOHYDRATES; FRUCTOSE (pharmacodynamics); GLUCOSE (pharmacodynamics); INTESTINES (drug effects, metabolism, cytology); LEUCINE (metabolism); LYSINE (metabolism); MALE; RATS; SUCROSE (pharmacodynamics).

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AGED; ANTIBODIES (analysis); BLOOD PROTEINS (analysis); BLOOD SUGAR (analysis); CALCIUM (blood); CASE REPORT; CHLORIDES (blood); DUODENUM; ENGLISH ABSTRACT; FECES (analysis); FEMALE; HUMAN; INTESTINAL ABSORPTION; LIPIDS (metabolism); PANCREATECTOMY; PANCREATIC NEOPLASMS (surgery); PARENTERAL FEEDING; POSTOPERATIVE CARE; POTASSIUM (blood); SODIUM (blood); TRIGLYCERIDES (analysis).

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AGED; BRAIN NEOPLASMS (cerebrospinal fluid, enzymology); CENTRAL NERVOUS SYSTEM DISEASES (cerebrospinal fluid, enzymology); CEREBROVASCULAR DISORDERS (cerebrospinal fluid, enzymology); DIABETIC NEUROPATHIES (cerebrospinal fluid, enzymology); EPILEPSY (cerebrospinal fluid, enzymology); FEMALE; HUMAN; MALE; MENINGITIS (cerebrospinal fluid, enzymology); MURAMIDASE (blood, cerebrospinal fluid).

Reitsma WD

[MONOCOMPONENT INSULIN] Reitsma WD *Ned Tijdschr Geneeskd 120: 760-2, 24 Apr 76 (Dut)* DL/76AUG274
DIABETES MELLITUS (drug therapy); HUMAN; INSULIN ANTIBODIES; INSULIN (isolation & purification, therapeutic use); INSULIN (immunology).

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[SIGNIFICANCE OF FATTY LIVER AS AN EARLY SYMPTOM OF DIABETES MELLITUS AND HYPERLIPOPROTEINEMIAS] Hanefeld M, Haller H, Renger F, Stotzner H *Dtsch Z Verdau Stoffwechselkr 34: 299-300, 1974 (Ger)* DL/76AUG65

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Reveno WS

MEDICINE AND THE LAW. CAN TRAUMA TRIGGER LATENT DIABETES. Reveno WS *Postgrad Med 59: 231-5, Apr 76 (Eng)* DL/76AUG310
ADULT; CASE REPORT; DIABETES MELLITUS (diagnosis, etiology); FEMALE; HUMAN; JURISPRUDENCE; MALE; WOUNDS AND INJURIES (complications).

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THE SEQUENTIAL FEMOROPOPLITEAL BYPASS GRAFT. A FIVE YEAR EXPERIENCE. Friedmann P, DeLaurentis DA, Rhee SW *Am J Surg 131: 452-6, Apr 76 (Eng)* DL/76AUG443

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PROCEEDINGS: THE EFFECTS OF CYPROHEPTADINE PRETREATMENT ON INSULIN RELEASE FROM ISOLATED PANCREATIC ISLETS. Richardson BP, Berde B *Br J Pharmacol 56: 356p-357p, Mar 76 (Eng)* DL/76AUG11
ANIMAL EXPERIMENTS (analysis); CYPROHEPTADINE (pharmacodynamics); GLUCOSE (antagonists & inhibitors); IN VITRO; INSULIN (metabolism); ISLANDS OF LANGERHANS (drug effects, metabolism); MALE; RATS; THEOPHYLLINE (pharmacodynamics); TOLBUTAMIDE (antagonists & inhibitors).

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ADOLESCENCE; ADULT; ANIMAL EXPERIMENTS (analysis); ANTIGENS; ANTIGENS, VIRAL; AUTOANTIGENS; AUTOIMMUNE DISEASES; CELL MIGRATION INHIBITION; CHILD; CHILD, PRESCHOOL; COXSACKIE VIRUS INFECTIONS; COXSACKIE VIRUSES (immunology); DIABETES MELLITUS, JUVENILE (etiology, immunology); FEMALE; HUMAN; HYPERSENSITIVITY, DELAYED; IMMUNITY, CELLULAR; LEUKOCYTES (immunology); MALE; MITOCHONDRIA, LIVER (immunology); PANCREAS (immunology); RATS.

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[A GLUCOSE DEHYDROGENASE FOR THE DETERMINATION OF GLUCOSE CONCENTRATIONS IN BODY FLUIDS (AUTHORS TRANSL.)] Banauch D, Brummer W, Ebeling W, Metz H, Rindfrey H, Lang H, Leybold K, Rick W, Staudinger HJ *Z Klin Chem Klin Biochem 13: 101-7, Mar 75 (Ger)* *DL/76AUG865

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[STUDY ON THE CHRONIC TOXICITY OF 1-(4-CYCLOHEXYLUREIDOPHENOXY)-2-HYDROXY-3-TERT-BUTYLAMINOPROPANE(TALINOLOL, CORDANUM, 02-115) IN THE RAT AND THE BEAGLE] Bartsch R, Merbt EM, Riedel H *Pharmazie 30: 659-68, Oct 75 (Ger)* *DL/76AUG583

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[EFFECT OF ANEMIA ON VARIOUS REACTIONS OF THE DOMESTIC SWINE DUE TO PHYSICAL EXERTION. 3. CHANGES IN PLASMA GLUCOSE AND LACTIC ACID CONCENTRATIONS] Bunger U, Steinhardt M, Riehm G, Lyhs L *Arch Exp Veterinaermed 29: 581-93, 1975 (Ger)* *DL/76AUG905

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THE EFFECT OF LONG-DISTANCE RUNNING ON SOME BIOCHEMICAL VARIABLES. Riley WJ, Pyke FS, Roberts AD, England JF *Clin Chim Acta 65: 83-9, 15 Nov 75 (Eng)* *DL/76AUG481
ADIPOSE TISSUE (analysis); ADULT; BLOOD CHEMICAL ANALYSIS; BLOOD PROTEINS (analysis); BLOOD SUGAR (metabolism); BODY HEIGHT; BODY SURFACE AREA; BODY WEIGHT; CALCIUM (metabolism); CHLORIDES (blood); HUMAN; MALE; OXYGEN CONSUMPTION; RUNNING; SERUM ALBUMIN (analysis); SODIUM (blood); SPORT MEDICINE.

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INTERACTING EFFECTS OF ESTROGEN, PROGESTERONE AND CATECHOLAMINES ON RAT UTERINE CYCLIC AMP AND GLYCOGEN PHOSPHORYLASE. Rinard GA, Chew CS *Life Sci 16: 1507-12, 15 May 75 (Eng)* *DL/76AUG572
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; CATECHOLAMINES (pharmacodynamics); EPINEPHRINE (pharmacodynamics); ESTRADIOL (pharmacodynamics, antagonists & inhibitors); FEMALE; GLYCOGEN PHOSPHORYLASE (metabolism); ISOPROTERENOL (pharmacodynamics); PROGESTERONE (pharmacodynamics); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UTERUS (drug effects, enzymology, metabolism).

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ANIMAL EXPERIMENTS; BLOOD SUGAR (analysis); BREEDING; CHOLESTEROL (blood); COMPARATIVE STUDY; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HORSES (blood); LIPIDS (blood); MALE; PHOSPHOLIPIDS (blood); PREGNANCY; SEASONS; TRIGLYCERIDES (blood).

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EFFECTS OF OBESITY AND SET POINT ON TASTE RESPONSIVENESS AND INGESTION IN HUMANS. Rodin J *J Comp Physiol Psychol 89: 1003-9, Nov 75 (Eng)* *DL/76AUG544
ADIPOSE TISSUE; BODY WEIGHT; DIFFERENTIAL THRESHOLD; FEEDING BEHAVIOR (physiology); FEMALE; FOOD PREFERENCES; HUMAN; MALE; MOTIVATION; OBESITY (complications); SPACE PERCEPTION; SUCROSE; TASTE (physiology); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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[GLYCEMIA AND THE LEVELS OF FREE FATTY ACIDS IN SMALL-FOR-DATE BORN INFANTS AFTER MONOSACCHARIDE LOAD. COMMUNICATION I (AUTHORS TRANSL)] Szotowa W, Kantoch Z, Rodkiewicz B, Rola-Janicki A *Probl Med Wieku Rozwoj 5: 75-81, 1975 (Pol)* DL/76AUG316

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CARBON RADIOISOTOPES; CHROMATOGRAPHY, THIN LAYER; FATTY ACIDS, NONESTERIFIED (isolation & purification); GELS; ISOTOPE LABELING; SILICA; SOLVENTS.

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CELLS, CULTURED; HYDROCORTISONE (pharmacodynamics); INSULIN (metabolism); LYMPHOCYTES (metabolism); LYMPHOSARCOMA (metabolism); MACROPHAGES (metabolism); NEOPLASM TRANSPLANTATION; NEOPLASMS, EXPERIMENTAL (metabolism); PHILIPPINES (physiology); RECEPTORS, HORMONE; SURFACE PROPERTIES; TEMPERATURE; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ALTHESIN (pharmacodynamics); ANESTHESIA, INTRAVENOUS; ANESTHETICS (pharmacodynamics); CATECHOLAMINES (secretion); CHLORPROTHIXENE (pharmacodynamics); COMPARATIVE STUDY; DEXTROMORAMIDE (pharmacodynamics); ENGLISH ABSTRACT; EPINEPHRINE (secretion); FENTANYL (pharmacodynamics); HUMAN; HYDROCORTISONE (secretion); INSULIN (secretion); NEUROLEPTOANALGESIA; NOREPINEPHRINE (secretion); PITUITARY-ADRENAL SYSTEM (drug effects); SOMATOTROPIN (secretion); THYROTROPIN (secretion).

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ACETOACETATES (metabolism); ADIPOSE TISSUE (metabolism, drug effects); ANIMAL; BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); BUTANEDIOLS (metabolism, pharmacodynamics); CHICKENS; DIET; HYDROXYBUTYRATES (metabolism); LACTATES (metabolism); LIPIDS (metabolism); LIVER (metabolism, drug effects); PYRUVATES (metabolism); RATS; SPECIES SPECIFICITY; SWINE; TRIGLYCERIDES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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THE CONTROL OF HYPERTENSION, ATHEROSCLEROTIC DISEASES, AND DIABETES IN A FAMILY PRACTICE. Kark SL, Kark E, Hopp C, Abramson JH, Epstein LM, Ronen I *J R Coll Gen Pract 26: 157-69, Mar 76 (Eng)* DL/76AUG202

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ANIMAL EXPERIMENTS (analysis); CALCITONIN (secretion); CELLS, CULTURED; CHOLECYSTOKININ (pharmacodynamics); GASTRIN (pharmacodynamics); GASTROINTESTINAL HORMONES (pharmacodynamics); GLUCAGON (pharmacodynamics); SALMONIDAE (physiology); SECRETIN (pharmacodynamics); SWINE; TROUT (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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ADENOSINE MONOPHOSPHATE (blood, pharmacodynamics); ADENOSINE TRIPHOSPHATE (pharmacodynamics); CHROMATOGRAPHY, GEL; CYSTEINE (pharmacodynamics); ENZYME ACTIVATION; GLUCOSE (pharmacodynamics); GLUCOSEPHOSPHATES (pharmacodynamics); GLYCOGEN PHOSPHORYLASE (blood); HUMAN; LEUKOCYTES (enzymology); MAGNESIUM (pharmacodynamics); PHOSPHORYLASE PHOSPHATASE (blood); SULFATES (pharmacodynamics); TEMPERATURE; TIME FACTORS.

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THE METABOLIC AND HORMONAL RESPONSE TO GLUCAGON. PART 1. NORMAL SUBJECTS. Goodwin PM, Capildeo R, Harrop JS, Marks V, Rose FC *J Neurol Sci 27: 373-80, Mar 76 (Eng)* DL/76AUG196

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ACUTE DISEASE; ADULT; AGE FACTORS; AGED; DIABETES MELLITUS (complications); ESTROGENS (adverse effects); FEMALE; HUMAN; HYPERTENSION (complications); MENOPAUSE; MIDDLE AGE; MYOCARDIAL INFARCT (chemically induced, mortality); PREMARIN (adverse effects); SMOKING (complications); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Rosenbloom AL

GROWTH HORMONE LEVELS DURING MORNING AND AFTERNOON NAPS. Karacan I, Rosenbloom AL, Londono JH, Williams RL, Salis PJ *Behav Neuropsychiatry 6: 67-70, Apr 74-Mar 75 (Eng)* *DL/76AUG908

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ANTIGENIC DETERMINANTS; ENGLISH ABSTRACT; GLUCAGON (analysis); GONADOTROPINS (analysis); HORMONES (analysis); HUMAN; MOLECULAR WEIGHT; PEPTIDES (analysis); PROTEIN CONFORMATION; RADIOIMMUNOASSAY; RECEPTORS, HORMONE.

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[HYPOGLYCEMIA AS A CAUSE OF BRAIN CHANGES] Rossi E *Pediatria (Napoli) 83: 424-33, 30 Sep 75 (Ita)* DL/76AUG292

BRAIN DISEASES (etiology); CASE REPORT; CHILD, PRESCHOOL; ENGLISH ABSTRACT; HUMAN; HYPOGLYCEMIA (complications); MALE.

Roth G

[COURSE OF BLOOD SUGAR AND EOSINOPHIL COUNT DURING PREGNANCY IN CATTLE] Talos V, Roth G, Pop P, Trif A *Dtsch Tieraerztl Wochenschr 82: 286-8, 5 Jul 75 (Ger)* *DL/76AUG495

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BINDING AND DEGRADATION OF INSULIN BY HUMAN PERIPHERAL GRANULOCYTES. DEMONSTRATION OF SPECIFIC RECEPTORS WITH HIGH AFFINITY. Fussganger RD, Kahn CR, Roth J, De Meyts P *J Biol Chem 251: 2761-9, 10 May 76 (Eng)* DL/76AUG134

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ANIMAL EXPERIMENTS; CARBOHYDRATES (metabolism); CELL MEMBRANE PERMEABILITY; CELL MEMBRANE (metabolism); CELL TRANSFORMATION, NEOPLASTIC; GLYCOLIPIDS (metabolism); HUMAN; LIPIDS (metabolism); MICROSCOPY, ELECTRON; PLANT AGGLUTININS (metabolism).

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ANIMAL; CATTLE; CELL MEMBRANE; CHLOROPLASTS (physiology); CHROMATOPHORES (physiology); MATHEMATICS; MEMBRANE POTENTIALS; MEMBRANES (physiology); MITOCHONDRIA, LIVER (physiology); MITOCHONDRIA, MUSCLE (physiology); MYOCARDIUM; PHILIPPINES; RATS.

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FATTY ACID DESATURASES (metabolism); FATTY ACID SYNTHETASE COMPLEX (metabolism); GRAIN (metabolism); HELIANTHUS (metabolism); LECITHINS (metabolism); LIPIDS (biosynthesis); MODELS, CHEMICAL; PHOSPHATIDYL CHOLINE (metabolism); PHOSPHATIDYL GLYCEROLS (metabolism); PLANTS (metabolism); SUNLIGHT.

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DIABETES MELLITUS: A COMMON PROBLEM IN ADULTS. Rubenstein AH *Compr Ther 1: 15-8, May 75 (Eng)* DL/76AUG50

ADULT; DIABETES MELLITUS (diagnosis, therapy); DIET THERAPY; GLUCOSE TOLERANCE TEST; HUMAN; HYPERGLYCEMIA (diagnosis); HYPOGLYCEMIC AGENTS (therapeutic use); INSULIN (therapeutic use).

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DIABETES MELLITUS, JUVENILE (familial & genetic, immunology); HISTOCOMPATIBILITY ANTIGENS (classification); HL-A (classification); HUMAN; PEDIGREE; RECOMBINATION, GENETIC; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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EFFECTS OF CHOROID PLEXUS PEPTIDE IIF ON ADENYLATE CYCLASE AND 3,5-CYCLIC ADENOSINE MONOPHOSPHATE IN ADIPOSE TISSUE. Rudman D *J Pharmacol Exp Ther 195: 532-9, Dec 75 (Eng)* *DL/76AUG552
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); ADIPOSE TISSUE (metabolism, enzymology); ANIMAL EXPERIMENTS; CALCIUM (pharmacodynamics); CATTLE; CHOROID PLEXUS (physiology); CORTICOTROPIN (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (metabolism); IN VITRO; MAGNESIUM (pharmacodynamics); MALE; MSH (pharmacodynamics); PEPTIDES (pharmacodynamics); POTASSIUM (pharmacodynamics); RABBITS; RATS; SODIUM (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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[ACTIVITY OF SOMATOSTATIN-CONTAINING CELLS OF THE ILETS OF LANGERHANS IN EXPERIMENTAL DIABETES] Orci L, Baetens D, Rufener C, Amherdt M, Ravazzola M, Studer P, Malaisse-Lagae F, Unger RH *C R Acad Sci [D] (Paris) 281: 1883-5, 15 Dec 75 (Fre)* DL/76AUG36

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[CORONARY RISK FACTORS AND ISCHEMIC HEART DISEASE IN BUS DRIVERS AND CONDUCTORS] Rusconi C, Arosio G, Orlando G, Petroboni V, Riva S, Gola E, Benedini G, Cicogna R, Frau G, Prandini BD, Spandrio L, Feroldi P *Minerva Cardioangiol 23: 718-27, Nov 75 (Ita)* DL/76AUG275
ADULT; ARTERIOSCLEROSIS (complications); AUTOMOBILE DRIVING; CORONARY DISEASE (etiology); DIABETES MELLITUS (complications); DIABETIC ANGIOPATHIES; ENGLISH ABSTRACT; HUMAN; MALE; MIDDLE AGE; OCCUPATIONAL DISEASES (etiology); SMOKING (complications).

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ADULT; AGED; ARTERIOSCLEROSIS (blood, complications); BLOOD SUGAR; ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; HUMAN; HYPERINSULINISM (etiology); HYPERLIPEMIA (etiology); MALE; MIDDLE AGE.

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THE EFFECT OF 3-MERCAPTOPICOLINIC ACID ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) IN THE RAT AND GUINEA PIG. Kostos V, DiTullio NW, Rush J, Cieslinski L, Saunders HL *Arch Biochem Biophys 171: 459-65, Dec 75 (Eng)* *DL/76AUG614

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ACROMEGALY (drug therapy, blood); ADMINISTRATION, ORAL; ADULT; AGED; BLOOD SUGAR (analysis); CLINICAL RESEARCH; DRUG EVALUATION; ERGOLINES (therapeutic use); FEMALE; FSH (blood); HUMAN; LH (blood); MALE; MIDDLE AGE; PITUITARY GLAND FUNCTION TESTS; SOMATOTROPIN (blood); THYROTROPIN RELEASING HORMONE (diagnostic use); THYROTROPIN (blood); TIME FACTORS; 11-HYDROXYCORTICOSTEROIDS (blood); 2-BROMOERGOCRYPTINE (therapeutic use, administration & dosage).

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ANIMAL; BIOLOGICAL TRANSPORT; BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); CATHETERIZATION; DOGS; FRUCTOSE (metabolism, blood, administration & dosage); GALACTOSE (metabolism, administration & dosage); GALACTOSEMIA (metabolism); GLUCOSE (metabolism, administration & dosage); HEPATIC VEINS (physiology); INJECTIONS, INTRAVENOUS; INTESTINAL ABSORPTION; INULIN (metabolism, blood, administration & dosage); LYMPH (metabolism); MESENTERIC VEINS (physiology); PORTAL VEIN (physiology); THORACIC DUCT (physiology).

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DIABETES MELLITUS (diet therapy, immunology, prevention & control, therapy); DIABETIC ANGIOPATHIES (therapy); DIABETIC DIET; ENGLISH ABSTRACT; GENETIC COUNSELING; HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); INSULIN (therapeutic use).

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ADULT; ARGININE (blood, diagnostic use); GLUCAGON (blood); HUMAN; INSULIN (blood); MALE; TIME FACTORS; XYLITOL (pharmacodynamics).

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[RADIOCHEMICAL CHANGES IN POLYMERS USED FOR PACKAGING DRUGS] PP. 159-69. Ivanov AI, Ponomarenko SI, Kovalchuk VM, Semenenko EI, Myshkovskii VI, I USON-Stiennon JA, Leclerq G *In0 Radiosterilization of medical products 1974. Vienna, International Atomic Energy Agency, 1975. W3 SY526R 1974r. (Rus)* DL/76AUG185

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ACCLIMATIZATION; ANIMAL; BROWN FAT (metabolism); CHOLESTEROL (metabolism); COLD; DIETARY FATS (administration & dosage, analysis); FATTY ACIDS (metabolism); FATTY ACIDS, NONESTERIFIED (metabolism); LIPIDS (metabolism); MALE; PHOSPHOLIPIDS (metabolism); RATS; SCAPULA; TRIGLYCERIDES (metabolism).

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AGE FACTORS; ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); CATECHOLAMINES (blood); EPINEPHRINE (blood); GERM-FREE LIFE; GLUCOSE TOLERANCE TEST; INSULIN (blood); MALE; NOREPINEPHRINE (blood); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ADENOSINE DIPHOSPHATE (pharmacodynamics); ADULT; ARACHIDONIC ACIDS (metabolism, blood, pharmacodynamics); BLOOD PLATELETS (metabolism); CLINICAL RESEARCH; DIET; HUMAN; IN VITRO; LINOLEIC ACIDS (blood); LIPIDS (metabolism, blood); MALE; PLATELET AGGREGATION (drug effects); PROSTAGLANDINS E (metabolism); PROSTAGLANDINS (biosynthesis); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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EFFECT OF ACUTE ISCHEMIA ON MYOCARDIAL CYCLIC AMP, PHOSPHORYLASE A, AND LACTATE LEVELS IN VARIOUS FORMS OF CARDIAC HYPERTROPHY. CORRELATION WITH CARDIAC NOREPINEPHRINE STORES. Wollenberger A, Shahab LW, Krause EG, Genz S, Warbanow W, Nitschkoff S *Recent Adv Stud Cardiac Struct Metab 3: 551-9, 1973 (Eng)* *DL/76AUG805

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[EFFECT OF VEGETABLE POLYPHENOLS ON THE LEVEL OF GLYCOGEN IN THE TISSUES AND GLUCOSE IN THE BLOOD OF STARVING RABBITS] Shamrai EF, Stroeva LM, Shuliakivska TO *Ukr Biokhim Zh 47: 107-9, Jan-Feb 75 (Ukr)* *DL/76AUG589
ANIMAL EXPERIMENTS; ASCORBIC ACID (pharmacodynamics); BIOFLAVONOIDS (pharmacodynamics); BLOOD SUGAR; CATS; DERMATOLOGIC AGENTS (pharmacodynamics); ENGLISH ABSTRACT; GLYCOGEN (metabolism); LIVER GLYCOGEN (metabolism); MUSCLES (metabolism); MYOCARDIUM (metabolism); PHENOLS (pharmacodynamics); RABBITS; STARVATION (metabolism); TANNINS (pharmacodynamics).

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VARIATIONS IN THE COMPOSITION OF BLOOD AND URINE FOLLOWING THE INGESTION OF A HIGH-PROTEIN DIET. Heeley DM, Sharman IM, Cooper DF *Proc Nutr Soc 34: 69a, Sep 75 (Eng)* *DL/76AUG771

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LOCAL SITES OF ACTIVITY-RELATED GLUCOSE METABOLISM IN RAT OLFACTORY BULB DURING OLFACTORY STIMULATION. Sharp FR, Kauer JS, Shepherd GM *Brain Res 98: 596-600, 21 Nov 75 (Eng)* *DL/76AUG646
ANIMAL; BRAIN MAPPING; DEOXYGLUCOSE (metabolism); GLUCOSE (metabolism); OLFACTORY BULB (metabolism); RATS; SMELL (physiology).

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ACTIVE TRANSPORT IN ESCHERICHIA COLI B MEMBRANE VESICLES. DIFFERENTIAL INACTIVATING EFFECTS FROM THE ENZYMATIC OXIDATION OF BETA-CHLORO-L-ALANINE AND BETA-CHLORO-D-ALANINE. Kaczorowski G, Shaw L, Laura R, Walsh C *J Biol Chem 250: 8921-30, 10 Dec 75 (Eng)* *DL/76AUG530

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HEMODYNAMIC AND METABOLIC ALTERATIONS IN PERIPHERAL TISSUE DURING HEMORRHAGIC SHOCK. Shearburn EW 3d, Craig WD, Maitland CL, Howard PL, McCoy S, Drucker WR *Am Surg 41: 696-703, Nov 75 (Eng)* *DL/76AUG890
ANIMAL; BLOOD FLOW VELOCITY; BLOOD PRESSURE; BLOOD SUGAR (metabolism); DOGS; HEMATOCRIT; HEMODYNAMICS; HINDLIMB; MUSCLES (metabolism); OXYGEN (blood); PHILIPPINES; SHOCK, HEMORRHAGIC (metabolism, blood, physiopathology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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MULTIVARIATE ANALYSIS OF THE RELATIONSHIP OF SEVEN VARIABLES TO BLOOD PRESSURE: FINDINGS OF THE CHICAGO HEART ASSOCIATION DETECTION PROJECT IN INDUSTRY, 1967-1972. Stamler J, Rhomberg P, Schoenberger JA, Shekelle RB, Dyer A, Shekelle S, Stamler R, Wannamaker J *J Chronic Dis 28: 527-48, Nov 75 (Eng)* *DL/76AUG543

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SOME NUTRIENT INTERRELATIONS DURING TOTAL INTRAVENOUS ALIMENTATION IN ADULT MAN--A REVIEW. Wixom RL, Sheng YB, Anderson HL, Yamanaka WK, Terry BE *Lipids 11: 299-306, Apr 76 (Eng)* [46] DL/76AUG237

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PERMEABILITY CHARACTERISTICS OF THE ADIPOCYTE CELL MEMBRANE AND PARTITIONING CHARACTERISTICS OF THE ADIPOCYTE TRIGLYCERIDE CORE. Sherill BC, Dietschy JM *J Membr Biol 23: 367-83, 1975 (Eng)* *DL/76AUG558

ADIPOSE TISSUE (metabolism, cytology); ANIMAL EXPERIMENTS; BILE ACIDS AND SALTS (metabolism); BIOLOGICAL TRANSPORT; CELL MEMBRANE PERMEABILITY; CELL MEMBRANE (metabolism); CHOLIC ACIDS (metabolism); DECANOIC ACIDS (metabolism); DEOXYCHOLIC ACID (metabolism); ENERGY TRANSFER; FATTY ACIDS (metabolism); FATTY ALCOHOLS (metabolism); GLUCOSE (metabolism); GLYCOLS (metabolism); KINETICS; LAURIC ACIDS (metabolism); OCTANOIC ACIDS (metabolism); RATS; TRIGLYCERIDES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Shibata S

DEPENDENCE OF PLATELET ADENYL CYCLASE SYSTEM ON OXIDATIVE PHOSPHORYLATION. Hashimoto S, Shibata S, Kobayashi B *Thromb Diath Haemorrh 34: 42-9, 30 Sep 75 (Eng)* *DL/76AUG852

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HISTIDINE:PYRUVATE TRANSAMINATION AND PHYENYLALANINE:PYRUVATE TRANSAMINATION MAY BE CATALYZED BY THE SAME ENZYME. Shih JC, Chiu RH, Chan YL *Biochem Biophys Res Commun 68: 1348-55, 23 Feb 76 (Eng)* DL/76AUG468

AMINOTRANSFERASES (isolation & purification, metabolism); ANIMAL EXPERIMENTS (analysis); GLUCAGON (pharmacodynamics); HEAT; HISTIDINE; KINETICS; LIVER (drug effects, enzymology); PHENYLALANINE; PYRUVATES; RATS; TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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A HIGH INCIDENCE OF POSITIVE PROVOCATION OF PLASMA PANCREATIC ENZYMES IN THE POORLY CONTROLLED DIABETIC SUBJECTS. Harano Y, Shimizu Y, Yoshida M, Dtani N, Kim CI *Acta Diabetol Lat 12: 177-84, May-Aug 75 (Eng)* DL/76AUG399

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[CONNECTIVE TISSUE AND AGING. (2) GLYCOSYLATION OF COLLAGEN AND AGING] Murai A, Miyahara T, Shiozawa S, Sanada K *Jpn J Geriatr 12: 128-9, May 75 (Jpn)* *DL/76AUG734

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RATE OF INCORPORATION OF CO2 CARBON INTO GLUCOSE AND OTHER BODY CONSTITUENTS IN VIVO. Shipley RA, Gibbons AP *Can J Physiol Pharmacol 53: 895-902, Oct 75 (Eng)* *DL/76AUG474

ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT, ACTIVE; BLOOD SUGAR (metabolism); CARBON DIOXIDE (metabolism); FASTING; GLUCONEOGENESIS; GLUCOSE (metabolism); GLYCOGEN (biosynthesis); LIPIDS (biosynthesis); LIVER GLYCOGEN (biosynthesis); MALE; MATHEMATICS; MODELS, BIOLOGICAL; RATS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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DETERMINANTS OF THE FORMATION AND ACTIVITY OF FACTOR V-PHOSPHOLIPID COMPLEXES. I. INFLUENCE OF PHOSPHOLIPID STRUCTURE. Kandall CL, Shohet SB, Akinbami TK, Colman RW *Thromb Diath Haemorrh 34: 256-70, 30 Sep 75 (Eng)* *DL/76AUG849

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[EFFECT OF VEGETABLE POLYPHENOLS ON THE LEVEL OF GLYCOGEN IN THE TISSUES AND GLUCOSE IN THE BLOOD OF STARVING RABBITS] Shamrai EF, Stroeva LM, Shuliakivska TO *Ukr Biokhim Zh 47: 107-9, Jan-Feb 75 (Ukr)* *DL/76AUG589

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PREDICTORS OF SUDDEN CARDIAC DEATH. Friedman GD, Klatsky AL, Siegelaub AB *Circulation 52: 164-9, Dec 75 (Eng)* *DL/76AUG656

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EFFECTS OF HYPOXIA OF 10-45 SECONDS DURATION ON ENERGY METABOLISM IN THE CEREBRAL CORTEX OF UNANESTHETIZED AND ANESTHETIZED RATS. Norberg K, Quistorff B, Siesjo BK *Acta Physiol Scand 95: 301-10, NOV 75 (Eng)* *DL/76AUG876

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EFFECTS OF SH-REAGENTS OF DIFFERENT MOLECULAR SIZE UPON GLUCOSE METABOLISM IN ISOLATED RAT FAT CELLS. Kather H, Simon B *Horm Metab Res 7: 415-8, Sep 75 (Eng)* *DL/76AUG690

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[DIABETIC COMA AS A TASK FOR INTENSIVE THERAPY] Singer P, Rahn A, Schliack V *Z Gesamte Inn Med 30: 161-2 concl, 1 Sep 75 (Ger)* DL/76AUG381

BERLIN; BRAIN EDEMA (prevention & control); CRITICAL CARE; DIABETIC COMA (therapy); ENGLISH ABSTRACT; HUMAN; INTENSIVE CARE UNITS; POTASSIUM (therapeutic use).

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MEMBRANE FLUIDITY AND CELLULAR FUNCTIONS. Singer SJ *Adv Exp Med Biol 62: 181-92, 1975 (Eng) [41]* *DL/76AUG599

ANIMAL EXPERIMENTS; BINDING SITES; BIOLOGICAL TRANSPORT; ENDOCYTOSIS; MEMBRANES (physiology, ultrastructure); MODELS, BIOLOGICAL; PROTEINS (metabolism); RECEPTORS, DRUG; REVIEW.

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THE QUEST FOR COUPLING SITE 1. Singer TP, Gutman M *Horiz Biochem Biophys 1: 261-302, 1974 (Eng) [48]* *DL/76AUG698

ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism, pharmacodynamics); CYTOCHROMES (metabolism); DIPHOSPHOGLYCERIC ACIDS (metabolism); ELECTRON TRANSPORT; FERRICYANIDES; KINETICS; NADH, NADPH OXIDOREDUCTASES (metabolism); OXIDATION-REDUCTION; OXIDATIVE PHOSPHORYLATION; OXYGEN CONSUMPTION (drug effects); PHOSPHATES, INORGANIC (metabolism); REVIEW; UBIQUINONE (metabolism).

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ADENYL CYCLASE ACTIVITY IN THE HYPOXIC HEART. McNamara DB, Sulakhe PV, Singh JN, Dhalla NS *Recent Adv Stud Cardiac Struct Metab 3: 303-9, 1973 (Eng)* *DL/76AUG797

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ADRENAL GLANDS (physiology); ALANINE AMINOTRANSFERASE (metabolism); ANIMAL EXPERIMENTS; BICARBONATES (metabolism); BLOOD SUGAR (biosynthesis); ENZYME ACTIVATION; GLUCONEOGENESIS (drug effects); GLUCOSEPHOSPHATASE (metabolism); HEXOSEDIPHOSPHATASE (metabolism); LIVER (enzymology, metabolism); MALE; PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); PYRUVATE CARBOXYLASE (metabolism); RATS; VITAMIN A (pharmacodynamics).

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EALES DISEASE WITH NEUROLOGICAL INVOLVEMENT. PART 2. PATHOLOGY AND PATHOGENESIS. Dastur DK, Singhal BS *J Neurol Sci 27: 323-45, Mar 76 (Eng)* DL/76AUG195

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INSULIN STIMULATES ACTIVE SODIUM TRANSPORT IN TOAD BLADDER BY TWO MECHANISMS. Wiesmann WP, Sinha S, Klahr S *Nature 260: 546-7, 8 Apr 76 (Eng)* DL/76AUG272

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FAILURE OF ERGOTAMINE TO ACT AS AN AMPLIFIER OF SULFONYLUREA-STIMULATED INSULIN SECRETION. Sirek A, Sirek OV, Policova Z *Acta Diabetol Lat 12: 199-201, May-Aug 75 (Eng)* DL/76AUG401

ANIMAL EXPERIMENTS (analysis); ERGOTAMINE (pharmacodynamics); FEMALE; GLIBENCLAMIDE (pharmacodynamics); INSULIN (blood, secretion); MALE; RATS.

Sirek OV

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BIPHASIC RESPONSE ON ORAL GLUCOSE TOLERANCE TESTING IN MYOTONIC DYSTROPHY. Russell D, Sjaastad O *Acta Neurol Scand 53: 226-8, Mar 76 (Eng)* DL/76AUG411

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[GAMMA GLUTAMYL-TRANSPEPTIDASE ACTIVITY AND FREE FATTY ACID LEVEL IN DIABETES (AUTHORS TRANSL)] Stork A, Skachova J, Kozakova B, Fabian E, Fabianova J, Cermak K *Cas Lek Cesk 115: 384-7, 2 Apr 76 (Cze)* DL/76AUG28

Skrabalo Z

COMPARISON BETWEEN CYTOCHEMICAL CHANGES, CONCENTRATION OF PAS-POSITIVE SUBSTANCES IN PERIPHERAL BLOOD LYMPHOCYTES AND CHANGES OF BLOOD GLUCOSE VALUES DURING THE ORAL GLUCOSE TOLERANCE TEST. Papic Z, Katona G, Crepinko I, Skrabalo Z *Acta Diabetol Lat 12: 232-8, May-Aug 75 (Eng)* DL/76AUG405

Slater DN

PANCREATIC ISCHAEMIA; SENSITIVITY AND REVERSIBILITY OF THE CHANGES. Slater DN, Bardsley D, Mangnall Y, Smythe A, Fox M *Br J Exp Pathol 56: 530-6, Dec 75 (Eng)* DL/76AUG1

ADIPOSE TISSUE (pathology); AMYLASE (blood); ANIMAL EXPERIMENTS (analysis); ISCHEMIA (pathology); ISLANDS OF LANGERHANS (blood supply, pathology); MALE; PANCREAS (blood supply, pathology, physiology); RATS; TIME FACTORS.

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ELECTROGENIC PROTON TRANSPORT IN THE PLASMA MEMBRANE OF NEUROSPORA. Slayman CL, Gradmann D *Biophys J 15: 968-71, Sep 75 (Eng)* *DL/76AUG639

BIOLOGICAL TRANSPORT; CELL MEMBRANE (metabolism, drug effects); CYANIDES (pharmacodynamics); MEMBRANE POTENTIALS (drug effects); MODELS, CHEMICAL; NEUROSPORA (metabolism, drug effects); PROTONS.

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ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES OF THE RAT. IV. THE INFLUENCE OF TRANSPLANTATION SITE AND OF HISTOCOMPATIBILITY ON ISLET FUNCTION. Federlin K, Slijepcevic M, Helmke K *Horm Metab Res 8: 97-101, Mar 76 (Eng)* DL/76AUG116

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SHORT-TERM MEASUREMENT OF D-XYLOSE UPTAKE BY ISOLATED RAT SOLEUS MUSCLE. Sloan IG, Korbl GP, Gould MK *Mol Cell Endocrinol 4: 223-37, Mar 76 (Eng)* DL/76AUG96

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; DIFFUSION; EXTRACELLULAR SPACE (metabolism); INSULIN (pharmacodynamics); KINETICS; MUSCLES (drug effects, metabolism); RATS; SORBITOL (metabolism); XYLOSE (metabolism).

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ATP SYNTHESIS DRIVEN BY PROTONMOTIVE FORCE IMPOSED ACROSS ESCHERICHIA COLI CELL MEMBRANES. Grinius L, Slusnyte R, Griniuviene B *FEBS Lett 57: 290-3, 1 Oct 75 (Eng)* *DL/76AUG681

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[INSULIN CONTENT OF RAT BLOOD FOLLOWING INJURY TO THE VENTROMEDIAL SECTION OF THE HYPOTHALAMUS] Goldberg RS, Kasatkin IuN, Lazaris IaI, Smirnova LK *Biull Eksp Biol Med 79: 40-3, Jun 75 (Rus)* DL/76AUG9

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PROCEEDINGS: MECHANISM OF COLLAGEN: GLUCOSYLTRANSFERASE AND ITS RELATION TO PLATELET: COLLAGEN ADHESION. Smith DF, Kosow DP, Jamieson GA *Thromb Diath Haemorrh 34: 334, 30 Sep 75 (Eng)* *DL/76AUG850

ADENOSINE DIPHOSPHATE (metabolism); BLOOD PLATELETS (metabolism); COLLAGEN (metabolism); GLUCOSYLTRANSFERASES (metabolism); HUMAN; IN VITRO; KINETICS; PLATELET AGGREGATION (drug effects); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.; URACIL NUCLEOTIDES (metabolism).

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EQUINE SERUM LIPIDS: SERUM LIPIDS AND GLUCOSE IN MORGAN AND THOROUGHBRED HORSES AND SHETLAND PONIES. Robie SM, Janson CH, Smith SC, OConnor JT Jr *Am J Vet Res 36: 1705-8, Dec 75 (Eng)* *DL/76AUG612

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PANCREATIC ISCHAEMIA; SENSITIVITY AND REVERSIBILITY OF THE CHANGES. Slater DN, Bardsley D, Mangnall Y, Smythe A, Fox M *Br J Exp Pathol 56: 530-6, Dec 75 (Eng)* DL/76AUG1

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HORMONAL CONTROL OF ESOPHAGEAL FUNCTION. Snape WJ Jr, Cohen S *Arch Intern Med 136: 538-42, May 76 (Eng)* DL/76AUG457

ANIMAL EXPERIMENTS (analysis); CHOLECYSTOKININ (physiology); ESOPHAGEAL DISEASES (physiopathology); ESOPHAGOGASTRIC JUNCTION (physiology); ESOPHAGUS (physiology); GASTRIN (physiology); GASTROINTESTINAL HORMONES (physiology); GLUCAGON (physiology); HUMAN; PRESSURE; SECRETIN (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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[POSTPRANDIAL LEVELS OF BLOOD SUGAR, CHOLESTEROL AND TOTAL LIPIDS IN A GROUP OF NORMAL STUDENTS] Sneer A, Buiuc C, Dughir E, Dimitriu M *Rev Med Chir Soc Med Nat Iasi 79: 555-60, Oct-Dec 75 (Rum)* DL/76AUG333

ADOLESCENCE; AGE FACTORS; BLOOD SUGAR (analysis); CHOLESTEROL (blood); DIABETES MELLITUS, JUVENILE (occurrence); ENGLISH ABSTRACT; FASTING; FEMALE; FOOD; HUMAN; LIPIDS (blood); MALE; RUMANIA).

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ADENOSINE TRIPHOSPHATE (metabolism); AGING; ALANINE AMINOTRANSFERASE (metabolism); ALANINE (metabolism); ALANINE (blood); ANIMAL EXPERIMENTS (analysis); ANIMALS, NEWBORN; COMPARATIVE STUDY; ENERGY METABOLISM; GLUCONEOGENESIS; GLUCOSE (metabolism); HYDROCORTISONE (pharmacodynamics); HYPOGLYCEMIA (enzymology); IN VITRO; LACTATES (metabolism); LIVER (drug effects, metabolism); MONOGRAPH (mortality); MUSCLES (metabolism); NITROGEN (metabolism); PERFUSION; PYRUVATE CARBOXYLASE (metabolism); RATS; REVIEW; SERINE (metabolism); UREA (metabolism).

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[ULTRASTRUCTURE OF THE STRIA VASCULARIS OF THE COCHLEA IN ALLOXAN DIABETES] Kozlov MIa, Onegova RF, Petrov VS, Sokoloverova IM *Zh Ushn Nos Gorl Bolezn 36-40, Mar-Apr 76 (Rus)* DL/76AUG393

Soler NG

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ADULT; AGED; ALCOHOLISM (complications); ASCITES (metabolism); COMPARATIVE STUDY; DIABETES MELLITUS (metabolism); DIURETICS (adverse effects, therapeutic use); FEMALE; HUMAN; LIVER CIRRHOSIS (etiology, metabolism); LIVER (drug effects); MALE; MIDDLE AGE; POTASSIUM (analysis, metabolism).

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ANIMAL EXPERIMENTS (analysis); AORTA (drug effects, metabolism); ARABINOSE (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; DIGLYCERIDES (biosynthesis); EPINEPHRINE (pharmacodynamics); EVANS BLUE; GLUCOSE (metabolism); INSULIN (pharmacodynamics); KINETICS; LIPIDS (biosynthesis); PHOSPHOLIPIDS (biosynthesis); STEROLS (biosynthesis); SWINE; TRIGLYCERIDES (biosynthesis).

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A STUDY OF SUBCUTANEOUS STAPHYLOCOCCAL INFECTION IN ALLOXAN DIABETIC MICE. Sood U, Agarwal DS, Aurora AL *Indian J Med Res 63: 1564-76, Nov 75 (Eng)* DL/76AUG118
ALLOXAN DIABETES (complications); ANIMAL EXPERIMENTS (analysis); FEMALE; MALE; MICE; SKIN (pathology); STAPHYLOCOCCAL INFECTIONS (complications, pathology); STAPHYLOCOCCUS AUREUS.

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MITOCHONDRIAL CALCIUM METABOLISM IN ISCHEMIC AND FAILING MYOCARDIUM. Sordahl LA, Schwartz A *Recent Adv Stud Cardiac Struct Metab 4: 535-40, 1974 (Eng)* *DL/76AUG822
ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (metabolism); CORONARY DISEASE (metabolism); DOGS; HEART ENLARGEMENT (metabolism); HEART FAILURE, CONGESTIVE (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MYOCARDIUM (ultrastructure); OXYGEN CONSUMPTION; RABBITS; TIME FACTORS.

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BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CELL COUNT; CELL LINE; CELL TRANSFORMATION, NEOPLASTIC; COMPARATIVE STUDY; CYTOCHALASIN B (pharmacodynamics); DEOXY SUGARS (metabolism); DEOXYGLUCOSE (metabolism); ETHIDIUM (pharmacodynamics); GLUCOSE (pharmacodynamics); KINETICS; NEURAMINIDASE (pharmacodynamics); PHILIPPINES; ROUS SARCOMA VIRUS; STIMULATION, CHEMICAL; TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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CHROMATOGRAPHY, GAS; CHROMATOGRAPHY, THIN LAYER; FRUCTOSE (urine); GLYCOSURIA; HEAD INJURIES (metabolism); HUMAN; MANNITOL (biosynthesis, urine); NUTRITION DISORDERS (metabolism); SORBITOL (metabolism).

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[ADIPOSITY IN CHILDREN] Spahn U, Knoll G, Plenert W *Kinderaerztl Prax 43: 166-80, Apr 75 (Ger) [71]* DL/76AUG213
ADIPOSE TISSUE (pathology); AGE FACTORS; CHILD; FASTING; FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); LIPIDS (metabolism); OBESITY IN DIABETES (metabolism); OBESITY (metabolism); REVIEW; SOMATOTROPIN (secretion).

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[CORONARY RISK FACTORS AND ISCHEMIC HEART DISEASE IN BUS DRIVERS AND CONDUCTORS] Rusconi C, Arosio G, Orlando G, Petroboni V, Riva S, Gola E, Benedini G, Cicogna R, Frau G, Prandini BD, Spandrio L, Feroldi P *Minerva Cardioangiol 23: 718-27, Nov 75 (Ita)* DL/76AUG275

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ACCESSORY REPRODUCTIVE ORGANS IN MAMMALS: CONTROL OF CELL AND TISSUE TRANSPORT BY SEX HORMONES. Spaziani E *Pharmacol Rev 27: 207-86, Jun 75 (Eng) [566]* *DL/76AUG782
AMINO ACIDS (metabolism); ANIMAL; BIOLOGICAL TRANSPORT; CAPILLARY PERMEABILITY; CARBOHYDRATES (metabolism); COLLAGEN (physiology); CONNECTIVE TISSUE (physiology); FEMALE; GROWTH; HUMAN; HYDROLASES (metabolism); IN VITRO; IONS (metabolism); LYSOSOMES (enzymology); MALE; MAMMALS (physiology); NEUROHUMORS (physiology); NEURONS (physiology); NUCLEIC ACIDS (metabolism); REGIONAL BLOOD FLOW; REVIEW; SEX FACTORS; SEX HORMONES (physiology); UROGENITAL SYSTEM (physiology); WATER (metabolism).

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THE EPIPHYSEAL DYSPLASIAS. Spranger J *Clin Orthop 46-59, Jan-Feb 76 (Eng)* DL/76AUG46
ADOLESCENCE; BONE DISEASES, DEVELOPMENTAL (classification, familial & genetic, pathology, radiography); CHILD; CHILD, PRESCHOOL; CHONDRODYSTROPHIA CALCIFICANS CONGENITA (pathology); DIABETES MELLITUS, JUVENILE (complications); EPIPHYSES (pathology); EYE DISEASES (complications); FEMALE; HUMAN; HYPOTHYROIDISM (pathology); INFANT, NEWBORN; TARSAL BONES (pathology).

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STUDIES ON THE ASYMMETRIC ARRANGEMENT OF MEMBRANE-LIPID-ENVELOPED VIRIONS AS A MODEL SYSTEM. Stoffel W, Anderson R, Stahl J *Hoppe Seylers Z Physiol Chem 356: 1123-9, Jul 75 (Eng)* *DL/76AUG518

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METABOLISM AND ULTRASTRUCTURE IN OVARIES OF ALLOXAN-DIABETIC JUVENILE RATS. Stahler E, Neumann HO, Niethammer KM *Arch Gynaekol 220: 199-208, 5 Mar 76 (Eng)* DL/76AUG461
ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ALKALINE PHOSPHATASE (metabolism); ALLOXAN DIABETES (metabolism, pathology); ANIMAL EXPERIMENTS (analysis); FEMALE; GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); ISOCITRATE DEHYDROGENASE (metabolism); LACTATES (metabolism); MALATE DEHYDROGENASE (metabolism); MICROSCOPY, ELECTRON; NADP (metabolism); OVARY (enzymology, metabolism, pathology); PYRUVATES (metabolism); RATS.

Stajner A

[CHANGES IN THE LEVELS OF NONESTERIFIED RAT SERUM FATTY ACIDS UNDER PHYSIOLOGIC AND STRESS CONDITIONS (AUTHORS TRANSL)] Suva J, Stajner A *Cas Lek Cesk 114: 1104-7, 5 Sep 75 (Cze)* *DL/76AUG653

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[EXPERIENCES FROM INTENSIVE MEDICAL CARE AT THE SAHLGRENSKA HOSPITAL] Bunketorp O, Jonsson D, Stakeberg H *Lakartidningen 73: 1720-2, 28 Apr 76 (Swe)* DL/76AUG228

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[CHANGES IN BLOOD COAGULATION IN DIABETIC NEPHROPATHY] Astrug A, Khristov L, Stamenova T *Vutr Boles 14: 69-75, 1975 (Bul)* DL/76AUG369

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MULTIVARIATE ANALYSIS OF THE RELATIONSHIP OF SIX VARIABLES TO BLOOD PRESSURE: FINDINGS FROM CHICAGO COMMUNITY SURVEYS, 1965--1971. Stamler J, Stamler R, Rhomberg P, Dyer A, Berksen DM, Reedus W, Wannamaker J *J Chronic Dis 28: 499-525, Nov 75 (Eng)* *DL/76AUG542
ADULT; AGE FACTORS; BLOOD PRESSURE; BLOOD SUGAR (metabolism); BODY WEIGHT; CAUCASIAN RACE; CHICAGO; CHOLESTEROL (blood); CROSS SECTIONAL STUDIES; FEMALE; HEART RATE; HEMATOCRIT; HUMAN; MALE; MIDDLE AGE; MULTIPHASIC SCREENING; NEGROID RACE; REGRESSION ANALYSIS; STATISTICS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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ADULT; AGE FACTORS; AMERICAN HEART ASSOCIATION; BLOOD PRESSURE; BLOOD SUGAR (metabolism); BODY WEIGHT; CAUCASIAN RACE; CHICAGO; CHOLESTEROL (blood); CROSS SECTIONAL STUDIES; FEMALE; HEART RATE; HUMAN; MALE; MIDDLE AGE; NEGROID RACE; REGRESSION ANALYSIS; SMOKING; STATISTICS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; URIC ACID (blood).

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ANIMAL; CORONARY DISEASE (etiology); DENTAL CARIES (etiology); DIET; DIETARY CARBOHYDRATES (adverse effects); ENERGY METABOLISM; HUMAN; INFANT; NUTRITION; OBESITY (etiology); REVIEW; SUCROSE (adverse effects); UNITED STATES.

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CONSTANT LOW-DOSE INSULIN INFUSION IN SEVERE DIABETES MELLITUS. Hannan TJ, Stathers GM *Med J Aust 1: 11-3, 3-10Jan 76 (Eng)* DL/76AUG249

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[A GLUCOSE DEHYDROGENASE FOR THE DETERMINATION OF GLUCOSE CONCENTRATIONS IN BODY FLUIDS (AUTHORS TRANSL)] Banauch D, Brummer W, Ebeling W, Metz H, Rindfrey H, Lang H, Leybold K, Rick W, Staudinger HJ *Z Klin Chem Klin Biochem 13: 101-7, Mar 75 (Ger)* *DL/76AUG865

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ROLE OF MITOCHONDRIAL CALCIUM METABOLISM IN THE ALTERED CONTRACTILITY OF PRESSURE-HYPERTROPHIED RIGHT VENTRICULAR MYOCARDIUM. Sack DW, Cooper G 4th, Stava RM Jr, Coleman HM 3rd, Harrison CE Jr *Recent Adv Stud Cardiac Struct Metab 5: 195-202, 1975 (Eng)* *DL/76AUG832

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IN VIVO CHEMOTAXIS OF RAT LEUKOCYTES IN THE PRESENCE OF CIRCULATING CHYLOMICRONS. Perper RJ, Oronsky AL, Sanda M, Stecher VJ *Atherosclerosis 22: 257-69, Sep-Oct 75 (Eng)* *DL/76AUG923

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EFFECT OF ACUTE CHANGES IN SERUM CALCIUM ON GLUCOSE TOLERANCE, BLOOD GLUCOSE, IRI AND CORTISOL LEVELS. Gero L, Szalay F, Steczek K, Tamas G Jr *Horm Metab Res 8: 151-2, Mar 76 (Eng)* DL/76AUG112

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AN EXAMPLE OF LYOPHILIZED PROTEIN-BASED MATERIALS NOT SIMULATING PATIENT SERA. Steele BW, Koehler DF, Blaszkowski TP, Azar M *Clin Chem 21: 1812-4, Nov 75 (Eng)* *DL/76AUG659
AUTOANALYSIS; BLOOD PROTEINS (analysis); BLOOD SUGAR; FREEZE DRYING; HUMAN; JAUNDICE (blood); LABORATORIES (standards); QUALITY CONTROL; SPECTROPHOTOMETRY, ULTRAVIOLET (methods); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

Steer ML

ADENYL CYCLASE. Steer ML *Ann Surg 182: 603-9, Nov 75 (Eng)* [57] *DL/76AUG899
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); ANIMAL; BINDING SITES; CHOLERA (enzymology); DIABETES INSIPIDUS (enzymology); ENZYME ACTIVATION; FLUORIDES (pharmacodynamics); GLYCOGENOSIS (enzymology); HORMONES (metabolism); HUMAN; METABOLIC DISEASES (enzymology); NUCLEOTIDES (physiology); PROSTAGLANDINS (physiology); PROTEIN KINASE (metabolism); PSEUDOHYPOPARATHYROIDISM (enzymology); RECEPTORS, HORMONE; REVIEW; STIMULATION, CHEMICAL.

Stefan O

[CURRENT AVERAGE VALUES OF SOME BLOOD PARAMETERS IN UNTREATED PULMONARY TUBERCULOSIS IN ADULTS] Golli V, Popescu I, Constantinescu C, Stefanin E, Stefanescu I, Bena A, Stefan O *Rev Ig [Pneumoftiziol] 24: 97-102, Apr-Jun 75 (Rum)* *DL/76AUG843

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LOWERING OF PLASMA CHOLESTEROL LEVELS IN FREE-LIVING ADOLESCENT MALES; USE OF NATURAL AND SYNTHETIC POLYUNSATURATED FOODS TO PROVIDE BALANCED FAT DIETS. Stein EA, Mendelsohn D, Fleming M, Barnard GD, Carter KJ, du Toit PS, Hansen JD, Bersohn I *Am J Clin Nutr 28: 1204-16, Nov 75 (Eng)* *DL/76AUG879
ADOLESCENCE; CHILD; CHOLESTEROL (blood); DAIRY PRODUCTS (analysis); DIET (standards); DIETARY CARBOHYDRATES (administration & dosage); DIETARY FATS (administration & dosage, analysis); DIETARY PROTEINS (administration & dosage); FATS, UNSATURATED (administration & dosage, analysis); FATTY ACIDS (analysis, blood); FATTY ACIDS, UNSATURATED (analysis); FOOD ANALYSIS; HUMAN; MALE; MEAT (analysis); TRIGLYCERIDES (blood).

Stein JM

THE EFFECT OF ADRENALINE AND OF ALPHA- AND BETA-ADRENERGIC BLOCKING AGENTS ON ATP CONCENTRATION AND ON INCORPORATION OF 32PI INTO ATP IN RAT FAT CELLS. Stein JM *Biochem Pharmacol 24: 1659-62, 15 Sep 75 (Eng)* *DL/76AUG916
ADENOSINE TRIPHOSPHATE (metabolism, biosynthesis); ADIPOSE TISSUE (metabolism, drug effects); ADRENERGIC ALPHA RECEPTOR BLOCKADERS (pharmacodynamics); ADRENERGIC BETA RECEPTOR BLOCKADERS (pharmacodynamics); ANIMAL; EPINEPHRINE (pharmacodynamics); HEXOKINASE (pharmacodynamics); IN VITRO; LUCIFERASE (pharmacodynamics); MALE; OXYGEN CONSUMPTION (drug effects); PHENOXYBENZAMINE (pharmacodynamics); PHOSPHORUS RADIOISOTOPES; PHOSPHORUS (metabolism); PROPRANOLOL (pharmacodynamics); RATS; TIME FACTORS.

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CORONARY HEART DISEASE AND ITS RISK FACTORS IN A GROUP OF 5,000 MIDDLE AGED MEN IN URBAN ENVIRONMENT. Steinbach M, Constantineanu M, Harnagea P, Theodorini S, Georgescu M, Georgescu A, Manicatide MA, Voiosu R, Cucu F, Suciu A, Chirulescu Z, Bitta R, Enculescu A, Oancea D, Popescu S, Schioiu L, Vasiliu F *Rev Roum Med [Med Intern] 14: 3-10, Jan-Mar 76 (Eng)* DL/76AUG336
AGE FACTORS; BLOOD PRESSURE; BODY WEIGHT; CHOLESTEROL (blood); CORONARY DISEASE (etiology, occurrence); DIABETES MELLITUS (complications); HUMAN; HYPERTENSION (complications); MALE; MIDDLE AGE; OBESITY (complications); RISK; RUMANIA); SEX FACTORS; SMOKING (complications); URBAN POPULATION.

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[EVALUATION OF THE ABILITY TO REGULATE BLOOD VOLUME UNDER STANDARDIZED MOTORIC STRESS] Bunger U, Steinhardt M, Lyhs L *Arch Exp Veterinaermed 29: 265-79, 1975 (Ger)* *DL/76AUG618

[EFFECT OF ANEMIA ON VARIOUS REACTIONS OF THE DOMESTIC SWINE DUE TO PHYSICAL EXERTION. 3. CHANGES IN PLASMA GLUCOSE AND LACTIC ACID CONCENTRATIONS] Bunger U, Steinhardt M, Riehm G, Lyhs L *Arch Exp Veterinaermed 29: 581-93, 1975 (Ger)* *DL/76AUG905

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SERUM LIPID LEVELS AND THEIR RELATIONSHIP WITH ISCHEMIC HEART DISEASE IN PIGS. Arora RB, Tayal G, Tariq M *Recent Adv Stud Cardiac Struct Metab 3: 795-803, 1973 (Eng)* *DL/76AUG814

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THE EFFECT OF PROPRANOLOL AND PHENTOLAMINE ON SERUM GASTRIN CONCENTRATION IN RESPONSE TO RESPIRATORY ACIDOSIS IN NORMAL MAN. Kaess H, Utz G, Teckentrup U, Hauck AM, Dorner M *Eur J Clin Invest 5: 401-8, 12 Sep 75 (Eng)* *DL/76AUG678

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LETTER: AGE-DEPENDENT SENSITIVITY TO SALICYLATE. Stubbs WA, Alberti KG, Woods HF, Teddy PJ *Lancet 2: 1216, 13 Dec 75 (Eng)* *DL/76AUG571

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METABOLISM OF SULFATED GLYCOSAMINOGLYCANS IN CULTIVATED BOVINE ARTERIAL CELLS. II. QUANTITATIVE STUDIES ON THE UPTAKE OF 35SO4-LABELED PROTEOGLYCANS. Kresse H, Tekolf W, von Figura K, Buddecke E *Hoppe Seylers Z Physiol Chem 356: 943-52, Jun 75 (Eng)* *DL/76AUG696

Teller DC

ACCESSIBLE AREA, PACKING VOLUMES AND INTERACTION SURFACES OF GLOBULAR PROTEINS. Teller DC *Nature 260: 729-31, 22 Apr 76 (Eng)* DL/76AUG273

GLOBULINS; HEMOGLOBINS); INSULIN; MODELS, BIOLOGICAL; MOLECULAR WEIGHT; PROTEIN CONFORMATION; SURFACE PROPERTIES; TRYPSIN INHIBITORS; TRYPSIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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CLINICAL SEGMENTAL PANCREATIC TRANSPLANTATION WITH URETER-TO-PANCREATIC DUCT ANASTOMOSIS FOR EXOCRINE DRAINAGE. Gliedman ML, Natale DL, Rifkin H, Soberman R, Freed S, Tellis V, Veith FJ *Bull Soc Int Chir 34: 15-20, 1975 (Eng)* DL/76AUG34

Tempe JD

[HYPEROSMOLAR COMA] Mantz JM, Tempe JD, Jaeger A, Kurtz D *Munch Med Wochenschr 118: 395-404, 26 Mar 76 (Ger)* DL/76AUG258

Ten Eick RE

ROLE OF NA&-K&-ACTIVATED ADENOSINE TRIPHOSPHATASE IN THE TRANSMEMBRANE TRANSPORT OF K& AND NA&: RELATIONSHIPS TO THE INOTROPIC AND ELECTROPHYSIOLOGIC EFFECTS OF DIGITALIS. Ten Eick RE, Bassett AL, Okita GT *Recent Adv Stud Cardiac Struct Metab 4: 107-17, 1974 (Eng)* *DL/76AUG816

ADENOSINE TRIPHOSPHATASE (metabolism, antagonists & inhibitors); ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE; DIGITALIS GLYCOSIDES (pharmacodynamics); DOGS; IN VITRO; MEMBRANE POTENTIALS (drug effects); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (enzymology, metabolism); POTASSIUM (metabolism, pharmacodynamics); SODIUM (metabolism); STROPHANTHIDIN (pharmacodynamics); TIME FACTORS.

ten Hoor F

EFFECTS OF DIETARY ERUCIC AND LINOLEIC ACID ON MYOCARDIAL FUNCTION IN RATS. ten Hoor F, van de Graaf HM, Vergroesen AJ *Recent Adv Stud Cardiac Struct Metab 3: 59-72, 1973 (Eng)* *DL/76AUG807

ANIMAL; DIETARY FATS (adverse effects); ERUCIC ACIDS (pharmacodynamics); FATTY ACIDS, ESSENTIAL (deficiency); FATTY ACIDS, UNSATURATED (pharmacodynamics); HEART DISEASES (physiopathology); IN VITRO; LINOLEIC ACIDS (pharmacodynamics); LIPOIDOSIS (physiopathology); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (pathology); RATS.

Tepperman HM

EFFECTS OF HIGH CARBOHYDRATE, HIGH FAT, OR HIGH PROTEIN DIETS ON GLUCOSE OXIDATION BY ISOLATED INTESTINAL EPITHELIAL CELLS OF THE CHICK. Raheja KL, Tepperman J, Tepperman HM *J Nutr 105: 1433-9, Nov 75 (Eng)* *DL/76AUG548

Tepperman J

EFFECTS OF HIGH CARBOHYDRATE, HIGH FAT, OR HIGH PROTEIN DIETS ON GLUCOSE OXIDATION BY ISOLATED INTESTINAL EPITHELIAL CELLS OF THE CHICK. Raheja KL, Tepperman J, Tepperman HM *J Nutr 105: 1433-9, Nov 75 (Eng)* *DL/76AUG548

Terry BE

SOME NUTRIENT INTERRELATIONS DURING TOTAL INTRAVENOUS ALIMENTATION IN ADULT MAN--A REVIEW. Wixom RL, Sheng YB, Anderson HL, Yamanaka WK, Terry BE *Lipids 11: 299-306, Apr 76 (Eng)* [46] DL/76AUG237

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EXPERIMENTAL ATHEROSCLEROSIS IN THE RAT: BIOCHEMICAL EVALUATION. Testa R, Canestrini C, Oldani C *J Pharm Pharmacol 27: 699-700, Sep 75 (Eng)* *DL/76AUG725

ANIMAL; AORTA (metabolism); ARTERIOSCLEROSIS (metabolism); ATHEROSCLEROSIS (metabolism, chemically induced); CHOLESTEROL (pharmacodynamics); DISEASE MODELS, ANIMAL; ERGOCALCIFEROL (pharmacodynamics); FEMALE; LIPIDS (metabolism); MALE; OILS (pharmacodynamics); PHOSPHOLIPIDS (metabolism); RATS; TRIGLYCERIDES (metabolism).

Testori GP

POTENTIATION OF HYPOGLYCEMIC RESPONSE TO INTRAVENOUS TOLBUTAMIDE BY CLOFIBRATE. Ferrari C, Frezzati S, Testori GP, Bertazzoni A *N Engl J Med 294: 1184, 20 May 76 (Eng)* DL/76AUG265

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NUTRITION AND THE ENDOCRINE GLANDS. Eisenstein AB, Singh SP, Thakor P *Prog Food Nutr Sci 1: 531-58, 1975 (Eng)* [135] DL/76AUG330

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SUGAR TRANSPORT BY RENAL PLASMA MEMBRANE VESICLES. CHARACTERIZATION OF THE SYSTEMS IN THE BRUSH-BORDER MICROVILLI AND BASAL-LATERAL PLASMA MEMBRANES. Kinne R, Murer H, Kinne-Saffran E, Thees M, Sachs G *J Membr Biol 21: 375-95, 22 May 75 (Eng)* *DL/76AUG557

Theodorini S

CORONARY HEART DISEASE AND ITS RISK FACTORS IN A GROUP OF 5,000 MIDDLE AGED MEN IN URBAN ENVIRONMENT. Steinbach M, Constantineanu M, Harnagea P, Theodorini S, Georgescu M, Georgescu A, Manicatide MA, Voiosu R, Cucu F, Suciu A, Chirulescu Z, Bitta R, Enculescu A, Oancea D, Popescu S, Schioiu L, Vasiliu F *Rev Roum Med [Med Intern] 14: 3-10, Jan-Mar 76 (Eng)* DL/76AUG336

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[PLASMA CALCITONIN LEVELS AND METABOLIC EFFECTS OF PORCINE CALCITONIN IN NEWBORN LAMBS (AUTHORS TRANSL)] Barlet JP, Michel MC, Theriez M, Savajol H, Garel JM *J Physiol (Paris) 68: 519-29, 1974 (Fre)* *DL/76AUG554

Thilenius OG

EFFECT OF DIBUTYRYL CYCLIC AMP ON MYOCARDIAL PERFORMANCE IN VIVO. Cutilletta AF, Lin CY, Thilenius OG, Arcilla RA *Recent Adv Stud Cardiac Struct Metab 3: 251-9, 1973 (Eng)* *DL/76AUG794

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THE PANCREATIC BETA-CELL RECOGNITION OF INSULIN SECRETAGOGUES. XII. INSULIN RELEASE IN RESPONSE TO HALOGENATED HEXOSAMINES. Hellman B, Idahl LA, Lernmark A, Taljedal IB, Thomas EW *Mol Pharmacol 12: 208-16, Mar 76 (Eng)* DL/76AUG254

Thomas JA

[A BONE MARROW FACTOR CAUSING HYPERGLYCEMIA AND GLYCOSURIA: RELEASED GLUCOSE COMES FROM GENERAL GLYCOGENOLYSIS, ESPECIALLY IN MUSCLE] Thomas JA *C R Acad Sci [D] (Paris) 281: 1995-9, 22 Dec 75 (Fre)* DL/76AUG37

ANIMAL EXPERIMENTS (analysis); BONE MARROW (physiology); CATTLE; ENGLISH ABSTRACT; FEMALE; GLOBULINS (isolation & purification, physiology); GLYCOGEN (metabolism); GLYCOPROTEINS (physiology); GLYCOSURIA; HYPERGLYCEMIA; LIVER GLYCOGEN (metabolism); LIVER (ultrastructure); MALE; MOLECULAR WEIGHT; MUSCLES (metabolism); RABBITS; SEX FACTORS; TEMPERATURE.

Thomas K

QUANTITATIVE DETERMINATION OF SEX HORMONE-BINDING GLOBULIN CAPACITY IN THE PLASMA OF NORMAL AND DIABETIC PREGNANCIES. De Hertogh R, Thomas K, Vanderheyden I *J Clin Endocrinol Metab 42: 773-7, Apr 76 (Eng)* DL/76AUG147

Thomas L

ISOLATION OF GLUCOSE BINDING PROTEIN FROM BRUSH BORDER MEMBRANES OF RAT KIDNEY CORTEX. Thomas L *Curr Probl Clin Biochem 4: 51-5, 1975 (Eng)* *DL/76AUG492

ANIMAL EXPERIMENTS; CARRIER PROTEINS (isolation & purification); CELL MEMBRANE (analysis); ELECTROPHORESIS, POLYACRYLAMIDE GEL; ETHYLMALEIMIDE (pharmacodynamics); GLUCOSE (metabolism); KIDNEY CORTEX (analysis); MOLECULAR WEIGHT; PHLORHIZIN (pharmacodynamics); RATS; RECEPTORS, DRUG.

Thomas PJ

PROSPECTIVE COMPARISON OF INDIRECT METHODS FOR DETECTING LACTASE DEFICIENCY. Newcomer AD, McGill DB, Thomas PJ, Hofman AF *N Engl J Med 293: 1232-6, 11 Dec 75 (Eng)* *DL/76AUG752

Thomas VG

CHANGES IN METABOLITE CONCENTRATION IN THE PLASMA, LIVER AND MUSCLE OF FEED RESTRICTED JAPANESE QUAIL EXPOSED TO COLD. Thomas VG, George JC *Arch Int Physiol Biochim 83: 505-18, Aug 75 (Eng)* *DL/76AUG616
ADAPTATION, PHYSIOLOGICAL; ANIMAL EXPERIMENTS; BLOOD SUGAR (metabolism); BODY COMPOSITION; BODY TEMPERATURE REGULATION; COLD; COTURNIX (metabolism); FATTY ACIDS, NONESTERIFIED (blood); GLYCOGEN (metabolism); LIPIDS (metabolism); LIVER GLYCOGEN (metabolism); LIVER (metabolism); MALE; MUSCLES (metabolism); NUTRITION DISORDERS (metabolism); QUAIL (metabolism); URIC ACID (blood).

Thompson JC

SECRETIN, CHOLECYSTOKININ AND NEWER GASTROINTESTINAL HORMONES (SECOND OF TWO PARTS). Rayford PL, Miller TA, Thompson JC *N Engl J Med 294: 1157-63, 20 May 76 (Eng)* [113] DL/76AUG261

Thorner J

METABOLIC AND CARDIOVASCULAR ABNORMALITIES IN PATIENTS WITH PERIPHERAL ARTERIAL DISEASE. Vyden JK, Thorner J, Nagasawa K, Takano T, Groseth-Dittrich MF, Perlow R, Swan HJ *Am Heart J 90: 703-8, Dec 75 (Eng)* *DL/76AUG604

Thorner MO

PROLACTIN AND GONADAL FUNCTION. Besser GM, Thorner MO *Pathol Biol (Paris) 23: 779-82, Dec 75 (Eng)* DL/76AUG281

Thorogood M

SERUM LIPIDS AND SOME ASPECTS OF DIET IN YOUNG FEMALE SURVIVORS OF MYOCARDIAL INFARCTION. Thorogood M, Mann JI *Proc Nutr Soc 34: 83a-84a, Sep 75 (Eng)* *DL/76AUG774
ADULT; CHOLESTEROL (blood); COFFEE (adverse effects); DIET; DIETARY FATS; EGGS; FEMALE; HUMAN; HYPERLIPEMIA (complications); LIPIDS (blood); MYOCARDIAL INFARCT (metabolism); TEA; TRIGLYCERIDES (blood).

Tichonicky L

RAT MYOCARDIAL PROTEIN KINASES. I. CYTOSOL. Gibson K, Tichonicky L, Kruh J *Biochimie 56: 1409-16, 1974 (Eng)* *DL/76AUG632

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INSULIN AND GLUCAGON RESPONSE TO GLUCOSE AND ARGININE IN TWO PATIENTS WITH AUTOIMMUNE DIABETES MELLITUS. Del Prete GF, Tiengo A, Bersani G, Nosadini R, Garotti C, Trisotto A *Horm Metab Res 8: 149-50, Mar 76 (Eng)* DL/76AUG111

Tillmanns H

THE EFFECT OF CARBON MONOXIDE ON LIPID METABOLISM OF HUMAN CORONARY ARTERIES. Sarma JS, Tillmanns H, Ikeda S, Bing RJ *Atherosclerosis 22: 193-8, Sep-Oct 75 (Eng)* *DL/76AUG922

Tiran J

A SIMULATION MODEL OF EXTRACELLULAR GLUCOSE DISTRIBUTION IN THE HUMAN BODY. Tiran J, Galle KR, Porte D Jr *Ann Biomed Eng 3: 34-46, Mar 75 (Eng)* *DL/76AUG888
BLOOD SUGAR (analysis); EXTRACELLULAR SPACE (metabolism); GLUCOSE (metabolism); HUMAN; LIVER (metabolism); MODELS, BIOLOGICAL; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

Titheradge MA

THE MITOCHONDRIAL PYRUVATE CARRIER, ITS EXCHANGE PROPERTIES AND ITS REGULATION BY GLUCAGON. Titheradge MA, Coore HG *FEBS Lett 63: 45-50, 15 Mar 76 (Eng)* DL/76AUG90
ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT, ACTIVE; CITRATES (pharmacodynamics); GLUCAGON (pharmacodynamics); KINETICS; MALATES (pharmacodynamics); MITOCHONDRIA, LIVER (drug effects, metabolism); PHOSPHATES, INORGANIC (pharmacodynamics); PROTEINS (metabolism); PYRUVATES (metabolism); RATS; SUCCINATES (pharmacodynamics).

Tjalve H

UPTAKE OF 14C-LABELLED CHLOROQUINE AND AN 125I-LABELLED CHLOROQUINE ANALOGUE IN SOME POLYPEPTIDE HORMONE PRODUCING CELL SYSTEMS. Dencker L, Lindquist NG, Tjalve H *Med Biol 54: 62-8, Feb 76 (Eng)* DL/76AUG226

Tobin RB

EFFECT OF POLYCHLORINATED BIPHENYLS AND THIAMIN DEFICIENCY ON LIVER METABOLISM IN GROWING RATS. Berdanier CD, Tobin RB, Nielsen RC, Mehlman MA, Veech RL *J Toxicol Environ Health 1: 91-105, Sep 75 (Eng)* *DL/76AUG732

Tobin T

CARDIAC GLYCOSIDES: TEMPORAL RELATIONSHIP BETWEEN THE INOTROPIC ACTION AND BINDING TO AND DISSOCIATION FROM NA&-K&-ACTIVATED ATPASE IN VITRO. Akera T, Baskin SI, Tobin T, Brody TM *Recent Adv Stud Cardiac Struct Metab 4: 149-54, 1974 (Eng)* *DL/76AUG818

Tolis G

EFFECT OF CLONIDINE ON GROWTH HORMONE, PROLACTIN, LUTEINIZING HORMONE, FOLLICLE-STIMULATING HORMONE, AND THYROID-STIMULATING HORMONE IN THE SERUM OF NORMAL MEN. Lal S, Tolis G, Martin SB, Brown GM, Guyda H *J Clin Endocrinol Metab 41: 827-32, Nov 75 (Eng)* *DL/76AUG718

Tomlinson CW

ROLE OF MITOCHONDRIAL CALCIUM TRANSPORT IN FAILING HEART. Dhalla NS, Tomlinson CW, Yates JC, Lee SL, Varley KG, Borowski IF, Barwinsky J *Recent Adv Stud Cardiac Struct Metab 5: 177-87, 1975 (Eng)* *DL/76AUG831

Tomoda A

TRANSPORT OF PHOSPHOENOLPYRUVATE THROUGH RED CELL MEMBRANE IN ACIDIFIED ISOTONIC SUCROSE MEDIUM. Tomoda A, Hamasaki N, Minakami S *Biochem Biophys Res Commun 66: 1127-30, 27 Oct 75 (Eng)* *DL/76AUG914
BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE (metabolism, drug effects); ERYTHROCYTES (metabolism, drug effects); GLYCOLYSIS (drug effects); HUMAN; KINETICS; OSMOLAR CONCENTRATION; PHOSPHOENOLPYRUVATE (blood); PHOSPHOGLYCERATE KINASE (blood); SUCROSE (pharmacodynamics).

Topolcan O

[PLASMATIC IMMUNOREACTIVE INSULIN IN TRAINED ATHLETES] Karljcek V, Topolcan O, Jeschke J *Cas Lek Cesk 115: 324-6, 19 Mar 76 (Cze)* DL/76AUG26

[IMMUNOREACTIVE INSULIN IN OBESE PATIENTS WITH CORONARY ATHEROSCLEROSIS AND MYOCARDIAL INFARCT (AUTHORS TRANSL)] Karlicek V, Topolcan O, Chudacek Z *Cas Lek Cesk 115: 207-9, 20 Feb 76 (Cze)* DL/76AUG29

Topping DL

THE EFFECT OF TOBACCO SMOKE AND SOME OF ITS CONSTITUTENTS ON TRIGLYCERIDE SECRETION IN THE SQUIRREL MONKEY. Turner DM, Topping DL *Res Commun Chem Pathol Pharmacol 12: 85-100, Sep 75 (Eng)* *DL/76AUG838

Touster O

METABOLISM AND PHYSIOLOGICAL EFFECTS OF THE POLYOLS (ALDITOLS). PP. 123-34. Touster O *In0 Jeanes A, Hodge J, ed. Physiological effects of food carbohydrates. Washington, D.C., American Chemical Society, 1975. QU 75 A512p 1974. (Eng)* [43] DL/76AUG174
ALCOHOL OXIDOREDUCTASES (metabolism); ANIMAL EXPERIMENTS (analysis); DIABETES MELLITUS (chemically induced); FEMALE; HUMAN; MALE; MONOGRAPH (mortality); NUTRITION; PARENTERAL FEEDING; PREGNANCY; REVIEW; SORBITOL (physiology); STRUCTURE-ACTIVITY RELATIONSHIP; SUGAR ALCOHOLS (adverse effects, physiology, therapeutic use); SWEETENING AGENTS; XYLITOL (pharmacodynamics, physiology).

Towery EP

EFFECTS OF DEXTROTHYROXINE ON HYPERLIPIDEMIA AND EXPERIMENTAL ATHEROSCLEROSIS IN BEAGLE DOGS. Nandan R, Fisher JD, Towery EP, Brown DR, Ganote E, Jennings RB *Atherosclerosis 22: 299-311, Sep-Oct 75 (Eng)* *DL/76AUG924

Tragl KH

[DIABETES MELLITUS AND CONTROL OF PROTEIN BIOSYNTHESIS IN RAT LIVER (AUTHORS TRANSL)] Tragl KH *Wien Klin Wochenschr 87: 349-61, 30 May75 (Ger)* [50] DL/76AUG376
ALLOXAN DIABETES (metabolism); ANIMAL EXPERIMENTS (analysis); COMPARATIVE STUDY; DIABETES MELLITUS (metabolism); ENGLISH ABSTRACT; IN VITRO; LIVER (metabolism, ultrastructure); MUSCLES (ultrastructure); PROTEINS (biosynthesis); RATS; REVIEW; RIBOSOMAL PROTEINS (biosynthesis); RIBOSOMES (metabolism); RNA (analysis); TIME FACTORS; URIDINE (metabolism).

[THE ACTION OF INSULIN ON RIBONUCLEIC ACID METABOLISM (AUTHORS TRANSL)] Tragl KH *Wien Klin Wochenschr 87: 361-3, 30 May75 (Ger)* DL/76AUG377
ALLOXAN DIABETES (metabolism); ANIMAL EXPERIMENTS (analysis); ENGLISH ABSTRACT; IN VITRO; INSULIN (pharmacodynamics); LIVER (ultrastructure); MALE; RATS; RIBOSOMES (drug effects, metabolism); RNA (metabolism); RNA, MESSENGER (metabolism); RNA, RIBOSOMAL (metabolism); URIDINE (metabolism).

Trenchard PM

A NEW FAT-DEPENDENT TIME-MODIFIED RELATIONSHIP BETWEEN BASAL PLASMA GLUCOSE LEVELS AND THE EARLY GLUCOSE RESPONSE TO ORAL GLUCOSE LOADING IN NORMAL HUMAN SUBJECTS. Trenchard PM *Clin Chim Acta 65: 139-42, 15 Nov 75 (Eng)* *DL/76AUG480
ADMINISTRATION, ORAL; ADULT; BLOOD SUGAR (analysis, metabolism); FASTING; GLUCOSE (administration & dosage); HUMAN; KINETICS; MALE; TIME FACTORS.

Trif A

[COURSE OF BLOOD SUGAR AND EOSINOPHIL COUNT DURING PREGNANCY IN CATTLE] Talos V, Roth G, Pop P, Trif A *Dtsch Tieraerztl Wochenschr 82: 286-8, 5 Jul 75 (Ger)* *DL/76AUG495

Trisotto A

INSULIN AND GLUCAGON RESPONSE TO GLUCOSE AND ARGININE IN TWO PATIENTS WITH AUTOIMMUNE DIABETES MELLITUS. Del Prete GF, Tiengo A, Bersani G, Nosadini R, Garotti C, Trisotto A *Horm Metab Res 8: 149-50, Mar 76 (Eng)* DL/76AUG111

Trowell H

DEFINITION OF DIETARY FIBER AND HYPOTHESES THAT IT IS A PROTECTIVE FACTOR IN CERTAIN DISEASES. Trowell H *Am J Clin Nutr 29: 417-27, Apr 76 (Eng)* [74] DL/76AUG428

ADULT; CELLULOSE (analysis); CHOLELITHIASIS (prevention & control); COLONIC DISEASES (occurrence, prevention & control); CORONARY DISEASE (occurrence, prevention & control); DIABETES MELLITUS (occurrence, prevention & control); DIET; DIETARY CARBOHYDRATES (analysis, therapeutic use); FEMALE; HUMAN; LIGNIN (analysis); MALE; METABOLIC DISEASES (prevention & control); OBESITY (occurrence, prevention & control); POLYSACCHARIDES (analysis, therapeutic use); REVIEW; RURAL POPULATION; URBAN POPULATION.

Truniger B

[HYPONATREMIA, HYPOOSMOLARITY AND WATER INTOXICATION] Truniger B *Med Klin 70: 1071-9, 20 Jun 75 (Ger)* [30] DL/76AUG252

ADULT; BLOOD PROTEINS (analysis); DIABETIC COMA (physiopathology); DIURESIS (drug effects); FEMALE; HEMODIALYSIS (diagnosis); HUMAN; HYPERTONIC SOLUTIONS; HYPONATREMIA (complications); KIDNEY DISEASES (complications); LIPIDS (analysis); MALE; MANNITOL (pharmacodynamics); MIDDLE AGE; OSMOLAR CONCENTRATION; PERITONEAL DIALYSIS; REVIEW; SODIUM CHLORIDE (therapeutic use); VASOPRESSIN (secretion); WATER INTOXICATION (etiology, therapy).

[WATER INTOXICATION] Truniger B *Z Gesamte Inn Med 30: 170-3, 1 Sep 75 (Ger)* DL/76AUG382

CASE REPORT; DIABETIC COMA (blood); DIAGNOSIS, DIFFERENTIAL; ENGLISH ABSTRACT; HUMAN; KIDNEY DISEASES (complications); MULTIPLE MYELOMA (blood); OSMOLAR CONCENTRATION; SODIUM (blood); VASOPRESSIN (secretion); WATER INTOXICATION (diagnosis, therapy); WATER-ELECTROLYTE BALANCE.

Trutneva KV

[RATE OF BLOOD OXYGEN OUTPUT IN CERTAIN TYPES OF OCULAR PATHOLOGY] Zaretskaia RB, Trutneva KV, Epshtein IM, Mikhailova NA *Vestn Oftalmol 19-22, Jul-Aug 75 (Rus)* DL/76AUG358

Tsai AC

EFFECTS OF DIETARY CARBOHYDRATE SOURCE ON GROWTH, PLASMA METABOLITES AND LIPOGENESIS IN RATS, PIGS, AND CHICKS. Waterman RA, Romsos DR, Tsai AC, Miller ER, Leveille GA *Proc Soc Exp Biol Med 150: 220-5, Oct 75 (Eng)* *DL/76AUG779

Tsan MF

STIMULATION BY PROPYLTHIOURACIL OF THE HEXOSE MONOPHOSPHATE SHUNT IN HUMAN POLYMORPHONUCLEAR LEUCOCYTES DURING PHAGOCYTOSIS. Tsan MF, McIntyre PA *Br J Haematol 31: 193-208, Oct 75 (Eng)* *DL/76AUG472

BLOOD SUGAR (metabolism); CATALASE (antagonists & inhibitors); CYANIDES (pharmacodynamics); GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); GRANULOMATOUS DISEASE, CHRONIC (metabolism); HEXOSEPHOSPHATES (metabolism); HUMAN; HYDROGEN PEROXIDE (pharmacodynamics); IODOACETATES (pharmacodynamics); LATEX PARTICLES; METHIMAZOLE (pharmacodynamics); NEUTROPHILS (metabolism); PHAGOCYTOSIS (drug effects); PHOSPHOGLUCONATE DEHYDROGENASE (metabolism); PROPYLTHIOURACIL (pharmacodynamics); THIOURACIL (pharmacodynamics); THIOUREA (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Tsao MU

REGULATION OF GLYCOLYSIS IN NEUROSPORA CRASSA. KINETIC PROPERTIES OF PYRUVATE KINASE. Tsao MU, Madley TI *Microbios 12: 125-42, 1975 (Eng)* *DL/76AUG746

ADENOSINE TRIPHOSPHATE (pharmacodynamics); CALCIUM (pharmacodynamics); CELL-FREE SYSTEM; CITRATES (pharmacodynamics); ENZYME ACTIVATION; FRUCTOSEPHOSPHATES (pharmacodynamics); GLYCOLYSIS; KINETICS; MAGNESIUM (pharmacodynamics); NEUROSPORA CRASSA (metabolism, enzymology); NEUROSPORA (metabolism); OXALOACETATES (pharmacodynamics); PHILIPPINES; POTASSIUM (pharmacodynamics); PYRUVATE KINASE (metabolism, isolation & purification, antagonists & inhibitors).

Tschudy DP

COMPARATIVE EFFECTS OF GLYCEROL AND DEXTROSE ON PORPHYRIN PRECURSOR EXCRETION IN ACUTE INTERMITTENT PORPHYRIA. Bonkowsky HL, Magnussen CR, Collins AR, Doherty JM, Hess RA, Tschudy DP *Metabolism 25: 405-14, Apr 76 (Eng)* DL/76AUG243

Tuman RW

THE ROLE OF TRACE ELEMENTS IN HUMAN NUTRITION AND METABOLISM. PP. 156-77. Tuman RW, Doisy RJ *In0 Jeanes A, Hodge J, ed. Physiological effects of food carbohydrates. Washington, D.C., American Chemical Society, 1975. QU 75 A512p 1974. (Eng)* [59] DL/76AUG177

ADULT; AGED; ANIMAL EXPERIMENTS (analysis); ANIMAL NUTRITION; CHEMISTRY; CHILD; CHROMIUM; COBALT; COPPER; FEMALE; FLUORINE; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; IODINE; IRON); MALE; MANGANESE; MIDDLE AGE; MOLYBDENUM; MONOGRAPH (mortality); NICKEL (physiology); NUTRITION; NUTRITIONAL REQUIREMENTS; PREGNANCY; REVIEW; SELENIUM; SILICON; TIN (physiology); TRACE ELEMENTS (deficiency, physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); VANADIUM; ZINC.

Tunbridge WM

BROMOCRIPTINE THERAPY IN ACROMEGALY. Sachdev Y, Gomez-Pan A, Tunbridge WM, Duns A, Weightman DR, Hall R, Goolamali SK *Lancet 2: 1164-8, 13 Dec 75 (Eng)* *DL/76AUG569

Turner DM

THE EFFECT OF TOBACCO SMOKE AND SOME OF ITS CONSTITUTENTS ON TRIGLYCERIDE SECRETION IN THE SQUIRREL MONKEY. Turner DM, Topping DL *Res Commun Chem Pathol Pharmacol 12: 85-100, Sep 75 (Eng)* *DL/76AUG838

ANIMAL; CARBON MONOXIDE (pharmacodynamics); CARBOXYHEMOGLOBIN (analysis); CHOLESTEROL (blood); FATTY ACIDS, NONESTERIFIED (blood); HEMOGLOBINOMETRY; MALE; MONKEYS; SMOKE; SQUIRREL MONKEYS; TIME FACTORS; TOBACCO; TRIGLYCERIDES (metabolism); TRITONS (pharmacodynamics).

Tutera G

THE GLUCOSE-INSULIN RATIO IN AMNIOTIC FLUID. Newman R, Tutera G *Obstet Gynecol 47: 599-601, May 76 (Eng)* DL/76AUG279

Tuynman HA

THE EFFECT OF ETHYLURETHANE ON HEMATOCRIT, BLOOD PRESSURE AND PLASMA-GLUCOSE. Van Der Meer C, Versluys-Broers JA, Tuynman HA, Buur VA *Arch Int Pharmacodyn Ther 217: 257-75, Oct 75 (Eng)* *DL/76AUG901

Tuzlukov AP

[EXPERIMENTAL STUDY OF MANGANESE CHLORIDE TOXICITY] Pashinskii VG, Tuzlukov AP, Rassokhin VM, Arefeva AK, Sedova KS *Farmakol Toksikol 38: 618-20, Sep-Oct 75 (Rus)* *DL/76AUG680

Tverdova EB

[AN ADVERSE GLYCEMIC EFFECT IN PATIENTS AS A RESULT OF TREATMENT WITH NEUROLEPTICS] Tverdova EB *Zh Nevropatol Psikhiatr 76: 450-2, 1976 (Rus)* DL/76AUG395

DIABETES MELLITUS (chemically induced); ENGLISH ABSTRACT; HUMAN; TRANQUILIZING AGENTS (adverse effects).

Twrdy E

[SYMPTOMATOLOGY OF REGULATORY MECHANISMS IN OLD AGE] PP. 39-52. Twrdy E *In0 Doberauer W, ed. Scriptum geriatricum. Munchen, Urban & Schwarzenberg, 1975. W3 IN973 1974s. (Ger)* DL/76AUG162

AGED; AGING; ANTICOAGULANTS (adverse effects); ANTINEOPLASTIC AGENTS (adverse effects); CEREBROVASCULAR DISORDERS (diagnosis); HEART DISEASES (diagnosis); HORMONES (adverse effects); HUMAN; HYPOGLYCEMIC AGENTS (adverse effects); KIDNEY DISEASES (diagnosis); MONOGRAPH (mortality); STRESS, PSYCHOLOGICAL.

Tzankoff SP

A DESIGN IMPROVEMENT IN CONTINUOUS BLOOD SAMPLING AND ANALYSIS FOR GLUCOSE IN REST AND EXERCISE. Tzankoff SP, Leatherman NE, Robinson S *J Appl Physiol 39: 873-4, Nov 75 (Eng)* *DL/76AUG710

BLOOD SPECIMEN COLLECTION (instrumentation); BLOOD SUGAR (analysis); EXERTION; HUMAN; METHODS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

Udeschini G

INHIBITORY ROLE OF THE SEROTONINERGIC SYSTEM IN HYPOGLYCAEMIA-INDUCED GROWTH HORMONE RELEASE IN THE DOG. Muller EE, Udeschini G, Secchi C, Zambotti F, Panerai A, Vicentini L, Cocola F, Mantegazza P *Acta Endocrinol (Kbh) 82: 71-91, May 76 (Eng)* DL/76AUG409

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EPIDEMIOLOGICAL AND CLINCOPATHOLOGICAL STUDY ON RENAL DISEASES OBSERVED IN THE AUTOPSY CASES IN HISAYAMA POPULATION, KYUSHU ISLAND, JAPAN. Ueda K, Omae T, Hirota Y, Takeshita M, Hiyoshi Y *J Chronic Dis 29: 159-73, Mar 76 (Eng)* DL/76AUG139

ADULT; AGED; AGING; AUTOPSY; BLOOD PRESSURE; BLOOD SUGAR (metabolism); CICATRIX; DIABETES MELLITUS (complications); FEMALE; HUMAN; HYPERTENSION (complications); JAPAN);

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (urine); ANIMAL EXPERIMENTS (analysis); CARBOHYDRATE METABOLISM, INBORN ERRORS (metabolism); CHILD, PRESCHOOL; FRUCTOSE INTOLERANCE (complications, metabolism); FRUCTOSE (metabolism); FRUCTOSE (pharmacodynamics); FRUCTOSEDIPHOSPHATE ALDOLASE (metabolism); FRUCTOSEPHOSPHATES (metabolism); GLUCAGON (metabolism); GLUCOSE (metabolism); GLYCERALDEHYDE (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN (biosynthesis); HUMAN; HYPOGLYCEMIA (etiology); INFANT; INTESTINE, SMALL (metabolism); KETONES (pharmacodynamics); KIDNEY (metabolism); LIVER GLYCOGEN (metabolism); LIVER (drug effects, metabolism); MONOGRAPH (mortality); REVIEW; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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AFFECTIVE DISTURBANCES (blood); BODY HEIGHT; BODY WEIGHT; CHILD; CIRCADIAN RHYTHM; FEMALE; GROWTH DISORDERS (blood); HUMAN; MALE; NUTRITION DISORDERS (blood); SOMATOMEDIN (analysis, antagonists & inhibitors).

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ANIMAL; BLOOD SUGAR (metabolism); CARBON RADIOISOTOPES; COMPARATIVE STUDY; GLUCOSE (metabolism); GLYCOGEN (metabolism); MALE; MUSCLES (metabolism); SHEEP (metabolism); TRITIUM.

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ANIMAL EXPERIMENTS; BLOOD PRESSURE (drug effects); BLOOD SUGAR (metabolism); CORONARY CIRCULATION (drug effects); DOGS; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; FIRES (prevention & control); FREON (pharmacodynamics); HEART RATE (drug effects); HEMODYNAMICS (drug effects); HYDROCARBONS, HALOGENATED (pharmacodynamics); LACTATES (blood); MALE; MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); OXYGEN (blood); PYRUVATES (blood); TIME FACTORS.

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ADULT; BLOOD SUGAR (analysis); CASE REPORT; DEPRESSION, CHEMICAL; ELECTROENCEPHALOGRAPHY; GASTRIC JUICE (secretion); HUMAN; HYPOTHALAMUS (drug effects, physiology); INSULIN (pharmacodynamics); MALE; SECRETORY RATE (drug effects).

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ADIPOSE TISSUE (metabolism, drug effects); ANIMAL EXPERIMENTS; FATTY ACIDS, UNSATURATED (biosynthesis); LINOLEIC ACIDS (pharmacodynamics); LIPIDS (biosynthesis); PALMITIC ACIDS

(pharmacodynamics); RATS; SHEEP; SPECIES SPECIFICITY.

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ADENOSINE TRIPHOSPHATASE (metabolism); ANIMAL; BINDING SITES; CALCIUM (metabolism); CELL MEMBRANE (enzymology, ultrastructure); FREEZE FRACTURING; HUMAN; MEMBRANES, ARTIFICIAL; MICROSCOPY, ELECTRON; MODELS, BIOLOGICAL; PHOSPHOLIPIDS (analysis); PROTEIN BINDING; PROTEINS (analysis); REVIEW; TEMPERATURE; UDP GLUCURONOSYLTRANSFERASE (metabolism); VITAMIN B 12 DEFICIENCY (metabolism).

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ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ADENYLATE KINASE (metabolism); ANIMAL EXPERIMENTS; CREATINE KINASE (metabolism); CREATINE (metabolism); KINETICS; MITOCHONDRIA, MUSCLE (enzymology, metabolism); MYOCARDIUM (enzymology, ultrastructure); OXYGEN CONSUMPTION; PHOSPHOCREATINE (metabolism); SWINE.

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THE RESPONSE OF A BIOELECTROCHEMICAL CELL WITH SACCHAROMYCES CEREVISIAE METABOLIZING GLUCOSE UNDER VARIOUS FERMENTATION CONDITIONS. Videla HA, Arvia AJ *Biotechnol Bioeng 17: 1529-43, Oct 75 (Eng)* *DL/76AUG641

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ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); FEMALE; HUMAN; LACTATES (blood); MENTAL DISORDERS (therapy); SHOCK THERAPY, ELECTRIC; SOMATOTROPIN (blood).

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ADOLESCENCE; ADULT; AGED; DIABETES MELLITUS (drug therapy, immunology); DRUG CONTAMINATION; DRUG STABILITY; DRUG STORAGE; FEMALE; HUMAN; INSULIN ANTIBODIES (analysis); INSULIN (therapeutic use); INSULIN (adverse effects); INSULIN, LENTE (therapeutic use); MALE; MIDDLE AGE; PROINSULIN (immunology).

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[RETICULOENDOTHELIAL SYSTEM, LIPID METABOLISM AND ATHEROSCLEROSIS] Vinogradov AG, Denisenko AD *Patol Fiziol Eksp Ter 3-12, Mar-Apr 75 (Rus) [138]* *DL/76AUG756

ANIMAL; ARTERIES (metabolism, pathology); ARTERIOSCLEROSIS (etiology); ATHEROSCLEROSIS (etiology); CHOLESTEROL (metabolism); CHOLESTEROL, DIETARY (adverse effects); FATTY ACIDS (metabolism); HUMAN; IN VITRO; KUPFFER CELLS (metabolism); LIPIDS (metabolism); LIPOPROTEINS (metabolism); MACROPHAGES (metabolism); MUSCLE, SMOOTH; RABBITS; RATS; RETICULOENDOTHELIAL SYSTEM (pathology); REVIEW; TISSUE CULTURE; TRIGLYCERIDES (metabolism).

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AGED; ALCOHOLISM (complications); CANDIDA (pathogenicity); CASE REPORT; DIABETES MELLITUS (complications); FEMALE; GASTRITIS (complications); GASTROINTESTINAL SYSTEM (microbiology); GASTROSCOPY; HUMAN; MONILIASIS (complications, radiography); STOMACH DISEASES (radiography).

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FATTY ACIDS, NONESTERIFIED (metabolism); HUMAN; LIPOPROTEINS (metabolism); RADIOACTIVE TRACERS; TRIGLYCERIDES (metabolism).

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ADULT; AGED; BLOOD SUGAR (metabolism); CHYLOMICRONS (blood); COPPER (blood); ELECTROCARDIOGRAPHY; HEART DISEASES (complications); HUMAN; HYPERLIPEMIA (complications); HYPERTENSION (complications); INTERMITTENT CLAUDICATION; LIPOPROTEINS, VLDL (blood); METABOLIC DISEASES (complications); MIDDLE AGE; SMOKING (complications); TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VASCULAR DISEASES (complications).

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ADOLESCENCE; ADULT; AGE FACTORS; AGED; CEREBROVASCULAR DISORDERS (complications); CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (complications); EPILEPSY (etiology); EPILEPSY (radiography); EPILEPSY, TEMPORAL LOBE (etiology); HUMAN; HYPERTENSION (complications); JACKSONIAN SEIZURE (etiology); MIDDLE AGE; MIGRAINE (complications); MONOGRAPH (mortality).

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ALLOXAN DIABETES (metabolism); ANIMAL EXPERIMENTS (analysis); FASTING; GLUCONEOGENESIS; IN VITRO; LIVER GLYCOGEN (biosynthesis); LIVER (metabolism); MALE; PROTEINS (biosynthesis); RATS.

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EFFECTIVENESS OF VARIOUS UNSATURATED FATTY ACIDS IN SUPPORTING GROWTH AND RESPIRATION IN SACCHAROMYCES CEREVISIAE. Walenga RW, Lands WE *J Biol Chem 250: 9121-9, 10 Dec 75* (*Eng*) *DL/76AUG532
CELL DIVISION; FATTY ACIDS, UNSATURATED (metabolism); GLUCOSE (metabolism); MATHEMATICS; OXYGEN CONSUMPTION; PHOSPHOLIPIDS (metabolism); SACCHAROMYCES CEREVISIAE (metabolism); SACCHAROMYCES (growth & development); STRUCTURE-ACTIVITY RELATIONSHIP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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CHLORAMPHENICOL (pharmacodynamics); CYCLOHEXIMIDE (pharmacodynamics); CYTOCHROMES (metabolism); EICOSANOIC ACIDS (pharmacodynamics); FATTY ACIDS, UNSATURATED (pharmacodynamics, metabolism); KINETICS; OLEIC ACIDS (metabolism); OXYGEN CONSUMPTION (drug effects); SACCHAROMYCES CEREVISIAE (metabolism, drug effects); STRUCTURE-ACTIVITY RELATIONSHIP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

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A DISTRIBUTED PORE SIZE MODEL FOR CAPILLARIES. Johnson JA, Levitt DG, Wangensteen OD, Bloom G *Microvasc Res 10: 217-9, Sep 75* (*Eng*) *DL/76AUG747

Wannamaker J

MULTIVARIATE ANALYSIS OF THE RELATIONSHIP OF SIX VARIABLES TO BLOOD PRESSURE: FINDINGS FROM CHICAGO COMMUNITY SURVEYS, 1965--1971. Stamler J, Stamler R, Rhomberg P, Dyer A, Berkson DM, Reedus W, Wannamaker J *J Chronic Dis 28: 499-525, Nov 75* (*Eng*) *DL/76AUG542

MULTIVARIATE ANALYSIS OF THE RELATIONSHIP OF SEVEN VARIABLES TO BLOOD PRESSURE: FINDINGS OF THE CHICAGO HEART ASSOCIATION DETECTION PROJECT IN INDUSTRY, 1967-1972. Stamler J, Rhomberg P, Schoenberger JA, Shekelle RB, Dyer A, Shekelle S, Stamler R, Wannamaker J *J Chronic Dis 28: 527-48, Nov 75* (*Eng*) *DL/76AUG543

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EFFECT OF ACUTE ISCHEMIA ON MYOCARDIAL CYCLIC AMP, PHOSPHORYLASE A, AND LACTATE LEVELS IN VARIOUS FORMS OF CARDIAC HYPERTROPHY. CORRELATION WITH CARDIAC NOREPINEPHRINE STORES. Wollenberger A, Shahab LW, Krause EG, Genz S, Warbanow W, Nitschkoff S *Recent Adv Stud Cardiac Struct Metab 3: 551-9, 1973* (*Eng*) *DL/76AUG805

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PROPERTIES AND SPECIFICITY OF A SECOND METAL CHELATOR-SENSITIVE PROTEINASE IN THE KERATINOLYTIC LARVAE OF THE WEBBING CLOTHES MOTH. Ward CW *Aust J Biol Sci 28: 439-45, Dec 75* (*Eng*) DL/76AUG465
ANIMAL EXPERIMENTS (analysis); DRUG STABILITY; EDTA; INSULIN; LARVA (enzymology); LEPIDOPTERA (enzymology); MOTHS (enzymology); PEPTIDE HYDROLASES (antagonists & inhibitors, isolation & purification); PHILIPPINES (physiology).

Wardle EN

LETTER: ALPHA-2 MACROGLOBULIN AND REDUCED BASEMENT-MEMBRANE DEGRADATION IN DIABETES. Wardle EN *Lancet 1: 963-4, 1 May 76* (*Eng*) DL/76AUG231
ALPHA MACROGLOBULINS (analysis); ARTERITIS (etiology); BASEMENT MEMBRANE (metabolism); DIABETIC ANGIOPATHIES (etiology); HUMAN.

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SOMATOMEDIN A AND B: DEMONSTRATION OF TWO DIFFERENT SOMATOMEDINLIKE COMPONENTS IN HUMAN PLASMA. Wasteson A, Westermark B, Uthne K *Adv Metab Disord 8: 101-13, 1975* (*Eng*) [23] *DL/76AUG600
BIOLOGICAL ASSAY; CELLS, CULTURED; FIBROBLASTS (metabolism, drug effects); GLYCOSAMINOGLYCANS (biosynthesis); NEUROGLIA (metabolism, drug effects); REVIEW; SOMATOMEDIN (analysis, pharmacodynamics, isolation & purification); SULFATES (metabolism).

Watanabe AM

THE RELATIONSHIP BETWEEN ADENOSINE 3,5-MONOPHOSPHATE LEVELS AND SYSTOLIC TRANSMEMBRANE CALCIUM FLUX. Watanabe AM, Besch HR Jr *Recent Adv Stud Cardiac Struct Metab 5: 95-102, 1975* (*Eng*) *DL/76AUG837
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; BIOLOGICAL TRANSPORT; CALCIUM (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; GUINEA PIGS; HISTAMINE (pharmacodynamics); IN VITRO; IPROVERATRIL (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism); OUABAIN (pharmacodynamics); PAPAVERINE (pharmacodynamics); POTASSIUM (pharmacodynamics); PROPRANOLOL

Wilson WH

ELEVATED BLOOD GLUCOSE LEVELS AND SATIETY IN THE RAT. Wilson WH, Heller HC *Physiol Behav 15: 137-43, Aug 75 (Eng)* *DL/76AUG784
ANIMAL; BLOOD SUGAR (metabolism); EATING; FEEDBACK; GLUCOSE (administration & dosage, pharmacodynamics); INJECTIONS, INTRAPERITONEAL; MALE; MANNITOL (administration & dosage, pharmacodynamics); RATS; SATIATION (drug effects); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.

Wilton DC

THE MECHANISM OF C-4 DEMETHYLATION DURING CHOLESTEROL BIOSYNTHESIS. Wilton DC, Akhtar M *Biochem J 149: 233-5, Jul 75 (Eng)* *DL/76AUG913
ANIMAL; CHOLESTEROL (biosynthesis); DEALKYLATION; DECARBOXYLATION; MALE; MICROSOMES, LIVER (metabolism); NAD; NADP; RATS; SCHIFF BASES.

Winder AF

CATARACTS IN EARLY LIFE: BIOCHEMISTRY. Winder AF *Proc R Soc Med 69: 270-2, Apr 76 (Eng)* DL/76AUG319
CATARACT (etiology, metabolism); DIABETES MELLITUS (complications, metabolism); GALACTOSE (metabolism); GLUCOSE (metabolism); HYPOCALCEMIA (complications); METABOLISM, INBORN ERRORS (complications).

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GLUCOCORTICOID THERAPY IN CHILDREN. EFFECT ON SOMATOMEDIN SECRETION. Elders MJ, Wingfield BS, McNatt ML, Clarke JS, Hughes ER *Am J Dis Child 129: 1393-6, Dec 75 (Eng)* *DL/76AUG606

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ALLOXAN-INDUCED DIABETES-EVIDENCE FOR HYDROXYL RADICAL AS A CYTOTOXIC INTERMEDIATE. Heikkila RE, Winston B, Cohen G *Biochem Pharmacol 25: 1085-92, 1 May 76 (Eng)* DL/76AUG470

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ACETOACETATES (urine); ASCORBIC ACID (urine); BUFFERS; CHEMISTRY, CLINICAL (methods); COLOR; ENZYMES; GLYCOSURIA (diagnosis); HUMAN; INDICATORS AND REAGENTS; MONOGRAPH (mortality); PHILIPPINES (physiology); QUALITY CONTROL; REAGENT STRIPS; SPECIFIC GRAVITY; TEMPERATURE; TIME FACTORS; URIC ACID (urine); URINE (analysis).

Witkin AP

THE ASSESSMENT OF NOCTURNAL REM ERECTION IN THE DIFFERENTIAL DIAGNOSIS OF SEXUAL IMPOTENCE. Fisher C, Schiavi P, Lear H, Edwards A, Davis DM, Witkin AP *J Sex Marital Ther 1: 277-89, Summer 75 (Eng)* DL/76AUG203

Witorsch RJ

PLASMA CORTICOSTERONE AND CARDIAC GLYCOGEN LEVELS IN RATS AFTER EXERCISE. Poland JL, Myers TD, Witorsch RJ, Brandt RB *Proc Soc Exp Biol Med 150: 148-50, Oct 75 (Eng)* *DL/76AUG778

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INTERACTION OF STEROIDS WITH THE TRANSPORT SYSTEM OF GLUCOSE IN HUMAN ERYTHROCYTES. Lacko L, Wittke B, Geck P *J Cell Physiol 86 suppl 2: 673-80, Dec 75 (Eng)* *DL/76AUG540

Wittman JS 3d

ALTERATION OF GLUCOSE TOLERANCE BY DIETARY L-TRYPTOPHAN IN RATS. Wittman JS 3d *J Nutr 106: 631-5, May 76 (Eng)* DL/76AUG199
ANIMAL EXPERIMENTS (analysis); CARBOHYDRATES (metabolism); DEFICIENCY DISEASES (drug therapy, metabolism); DIETARY PROTEINS; DOSE-RESPONSE RELATIONSHIP, DRUG); FEMALE; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); NICOTINIC ACIDS (pharmacodynamics); PYRIDOXINE (pharmacodynamics); RATS; TRYPTOPHAN (deficiency, pharmacodynamics, therapeutic use).

Wittmers LE Jr

ESTIMATION OF THE CAPILLARY PERMEABILITY COEFFICIENTS OF INULIN IN VARIOUS TISSUES OF THE RABBIT. Wittmers LE Jr, Bartlett M, Johnson JA *Microvasc Res 11: 67-78, Jan 76 (Eng)* DL/76AUG248
ANIMAL EXPERIMENTS (analysis); CAPILLARY PERMEABILITY; DIAPHRAGM (metabolism); EAR, EXTERNAL (metabolism); FEMALE; HALF-LIFE; INFUSIONS, PARENTERAL; INSULIN (metabolism); INTESTINE, SMALL (metabolism); INULIN (blood); LUNG (metabolism); MALE; MODELS, BIOLOGICAL; MUSCLES (metabolism); MYOCARDIUM (metabolism); RABBITS; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Wixom RL

SOME NUTRIENT INTERRELATIONS DURING TOTAL INTRAVENOUS ALIMENTATION IN ADULT MAN--A REVIEW. Wixom RL, Sheng YB, Anderson HL, Yamanaka WK, Terry BE *Lipids 11: 299-306, Apr 76 (Eng)* [46] DL/76AUG237
ADULT; AMINO ACIDS (administration & dosage); AMINO ACIDS, ESSENTIAL (deficiency); BLOOD SUGAR; EMULSIONS; FATTY ACIDS (blood); FATTY ACIDS, ESSENTIAL (deficiency); GLUCOSE (administration & dosage); HEPATIC ARTERY; HISTIDINE (deficiency); HISTORICAL ARTICLE; HISTORY OF MEDICINE, 17TH CENT.); HISTORY OF MEDICINE, 20TH CENT.); HUMAN; HYDROCORTISONE (blood); INFANT; INSULIN (blood); LIPIDS (administration & dosage, blood); MALE; NUTRITION; PARENTERAL FEEDING (history); REVIEW; RISK; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); VENA CAVA, SUPERIOR.

Wojtasik W

[HYPEROSMOTIC DIABETIC COMA FOLLOWING MYOCARDIAL INFARCTION] Wojtasik W *Wiad Lek 29: 621-3, 1 Apr 76 (Pol)* DL/76AUG374
ADULT; CASE REPORT; DIABETIC COMA (etiology); ENGLISH ABSTRACT; HUMAN; MALE; MYOCARDIAL INFARCT (complications).

Wolf GL

GLUCAGON AND BARIUM ENEMA EXAMINATIONS: A CONTROLLED CLINICAL TRIAL. Harned RK, Stelling CB, Williams S, Wolf GL *Am J Roentgenol 126: 981-4, May 76 (Eng)* DL/76AUG442

Wolfson SK Jr

BIOCHEMICAL VALUES IN THE NORMAL AND HYPOTHERMIC BABOOM PAPIO CYNOCEPHALUS/ANUBIS. Phillips CF, Nicolalde AA, Wolfson SK Jr *J Med Primatol 4: 308-19, 1975 (Eng)* *DL/76AUG728

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RIBONUCLEIC ACID AND PROTEIN SYNTHESIS IN RAT HEART MITOCHONDRIA ISOLATED AFTER AORTIC CONSTRICTION, STRENUOUS PHYSICAL EXERCISE, TOTAL MYOCARDIAL ISCHEMIA, AND THEOPHYLLINE TREATMENT. Wollenberger A, Kleitke B *Recent Adv Stud Cardiac Struct Metab 3: 535-50, 1973 (Eng)* *DL/76AUG804
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; CELL NUCLEUS (enzymology); CELL-FREE SYSTEM; CHLORAMPHENICOL (pharmacodynamics); CORONARY CIRCULATION; EXERTION; HEART ENLARGEMENT (metabolism); ISCHEMIA (metabolism); MALE; MITOCHONDRIA, MUSCLE (metabolism, drug effects, ultrastructure); MUSCLE PROTEINS (biosynthesis); MYOCARDIUM (ultrastructure); RATS; RIFAMPIN (pharmacodynamics); RNA POLYMERASE (metabolism); RNA (biosynthesis, metabolism); THEOPHYLLINE (pharmacodynamics).

EFFECT OF ACUTE ISCHEMIA ON MYOCARDIAL CYCLIC AMP, PHOSPHORYLASE A, AND LACTATE LEVELS IN VARIOUS FORMS OF CARDIAC HYPERTROPHY. CORRELATION WITH CARDIAC NOREPINEPHRINE STORES. Wollenberger A, Shahab LW, Krause EG, Genz S, Warbanow W, Nitschkoff S *Recent Adv Stud Cardiac Struct Metab 3: 551-9, 1973 (Eng)* *DL/76AUG805
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; CORONARY CIRCULATION; GLYCOGEN PHOSPHORYLASE (metabolism); HEART ENLARGEMENT (metabolism, etiology); HYPERTENSION, RENAL (complications); ISCHEMIA (metabolism); LACTATES (metabolism); MALE; MYOCARDIUM (metabolism, enzymology); NOREPINEPHRINE (metabolism); RATS; SWIMMING.

ADENOSINE 3,5-MONOPHOSPHATE, THE MYOCARDIAL CELL MEMBRANE, AND CALCIUM. Wollenberger A, Will H, Krause EG, Wollenberger A, Will H, Krause EG *Recent Adv Stud Cardiac Struct Metab 5: 81-93, 1975 (Eng)* [35] *DL/76AUG836
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS; BINDING SITES; CALCIUM (metabolism); CATECHOLAMINES (pharmacodynamics); CELL MEMBRANE (metabolism); HEART (drug effects); MODELS, BIOLOGICAL; MUSCLE PROTEINS (metabolism); MYOCARDIUM (metabolism, enzymology, ultrastructure); PHOSPHATES (metabolism); PROTEIN KINASE (metabolism); REVIEW; SARCOPLASMIC RETICULUM (metabolism); SWINE.

Wood HG

ISOLATION AND CHARACTERIZATION OF A PYROPHOSPHATE-DEPENDENT PHOSPHOFRUCTOKINASE FROM PROPIONIBACTERIUM SHERMANII. OBrien WE, Bowien S, Wood HG *J Biol Chem 250: 8690-5, 25 Nov 75 (Eng)* *DL/76AUG716

Woods HF

LETTER: AGE-DEPENDENT SENSITIVITY TO SALICYLATE. Stubbs WA, Alberti KG, Woods HF, Teddy PJ *Lancet 2: 1216, 13 Dec 75 (Eng)* *DL/76AUG571

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THE EFFECT OF O-SALICYLATE UPON PENTOSE PHOSPHATE PATHWAY ACTIVITY IN NORMAL AND G6PD-DEFICIENT RED CELLS. Worathumrong N, Grimes AJ *Br J Haematol 30: 225-31, Jun 75 (Eng)* *DL/76AUG471
BLOOD SUGAR (metabolism); ERYTHROCYTES (metabolism); GLUCOSEPHOSPHATE DEHYDROGENASE DEFICIENCY (blood); HUMAN; METHYLENE BLUE; PENTOSEPHOSPHATES (metabolism, blood, antagonists & inhibitors); PHILIPPINES; SODIUM SALICYLATE (metabolism, pharmacodynamics).

ANAEROBIC GLYCOLYSIS IN NORMAL HUMAN ERYTHROCYTES INCUBATED IN VITRO WITH SODIUM SALICYLATE. Worathumrong N, Grimes AJ *Clin Sci Mol Med 49: 375-84, Nov 75 (Eng)* *DL/76AUG482
ADENOSINE DIPHOSPHATE (blood); ADENOSINE MONOPHOSPHATE (blood); ADENOSINE TRIPHOSPHATE (blood); BLOOD SUGAR; DOSE-RESPONSE RELATIONSHIP, DRUG; ERYTHROCYTES (metabolism, drug effects); GLYCOLYSIS (drug effects); HEMATOCRIT; HUMAN; IN VITRO; LACTATES (biosynthesis); PHILIPPINES; PHOSPHATES, INORGANIC (blood); POTASSIUM (blood); PYRUVATES (blood); SODIUM SALICYLATE (pharmacodynamics); SODIUM (blood).

Worcester NA

THE EFFECT OF DIETARY SUCROSE AND DIFFERENT DIETARY FATS ON HYPERLIPIDAEMIA AND ATHEROSCLEROSIS IN WHITE LEGHORN COCKERELS (GALLUS DOMESTICUS). Worcester NA, Bruckdorfer KR, Yudkin J *Proc Nutr Soc 34: 82a-83a, Sep 75 (Eng)* *DL/76AUG773
ANIMAL; AORTIC DISEASES (etiology); ARTERIOSCLEROSIS (etiology); ATHEROSCLEROSIS (etiology); CHICKENS; CHOLESTEROL (blood); DIET, ATHEROGENIC; DIETARY CARBOHYDRATES; DIETARY FATS; HYPERLIPEMIA (etiology); MALE; OILS (pharmacodynamics); STARCH (pharmacodynamics); SUCROSE (pharmacodynamics); TRIGLYCERIDES (blood).

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GLUCOSE TOLERANCE, INSULIN AND CATECHOLAMINE LEVELS IN GERMFREE RATS. Sewell DL, Bruckner-Kardoss E, Lorenz LM, Wostmann BS *Proc Soc Exp Biol Med 152: 16-9, May 76 (Eng)* DL/76AUG322

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[TREATMENT OF HYPERTONUS IN DIABETES MELLITUS] Wedler B, Wustenberg PW, Naumann G *Z Gesamte Inn Med 30: 437-42, 1 Jul 75 (Ger)* DL/76AUG380

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STIMULATION OF 45CA EFFLUX FROM SMOOTH MUSCLE CELLS BY METABOLIC INHIBITION AND HIGH K DEPOLARIZATION. Van Breemen C, Wuytack F, Casteels R, Martinelli B, Campailla E, Ferrari G *Pfluegers Arch 359: 183-96, 9 Sep 75 (Eng)* *DL/76AUG758

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DIETARY REGULATION OF SERUM LIPIDS IN HEALTHY, YOUNG ADULTS. Hill P, Wynder EL *J Am Diet Assoc 68: 25-30, Jan 76 (Eng)* *DL/76AUG545

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STUDIES ON PEPTIDES. LII. APPLICATION OF THE TRIFLUOROMETHANESULPHONIC ACID PROCEDURE TO THE SYNTHESIS OF A PEPTIDE WITH SOMATOSTATIN ACTIVITY. Fujii N, Yajima H *Chem Pharm Bull (Tokyo) 23: 1596-603, Jul 75 (Eng)* *DL/76AUG655

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RADIOIMMUNOASSAY OF SOMATOMEDIN B. Yalow RS, Hall K, Luft R *Adv Metab Disord 8: 73-88, 1975 (Eng)* *DL/76AUG603
ACROMEGALY (blood); ANIMAL EXPERIMENTS; HUMAN; MICROCHEMISTRY; RADIOIMMUNOASSAY (methods); SOMATOMEDIN (analysis, immunology); SOMATOTROPIN (blood); SPECIES SPECIFICITY; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.

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SOME NUTRIENT INTERRELATIONS DURING TOTAL INTRAVENOUS ALIMENTATION IN ADULT MAN--A REVIEW. Wixom RL, Sheng YB, Anderson HL, Yamanaka WK, Terry BE *Lipids 11: 299-306, Apr 76 (Eng)* [46] DL/76AUG237

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[EFFECT OF ALFALFA MEAL ON EXPERIMENTAL HYPERLIPIDEMIA] Yanaura S, Sakamoto M *Folia Pharmacol Jpn 71: 387-93, Jul 75 (Jpn)* *DL/76AUG511
ALFALFA; ANIMAL EXPERIMENTS; ANIMAL FEED; ANTICHOLESTEREMIC AGENTS (pharmacodynamics); CHOLESTEROL (blood); ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); HYPERLIPEMIA (blood); MALE; RABBITS; RATS; TRIGLYCERIDES (blood).

Yang JT

LETTER: OLIGOPEPTIDES AS POTENTIAL ANTIAGGREGATION AGENT FOR PROTEINS: HEMOGLOBIN S GEL AND INSULIN DIMER. Kubota S, Chang CT, Samejima T, Yang JT *J Am Chem Soc 98: 2677-8, 28 Apr 76 (Eng)* DL/76AUG154

Yates JC

ROLE OF MITOCHONDRIAL CALCIUM TRANSPORT IN FAILING HEART. Dhalla NS, Tomlinson CW, Yates JC, Lee SL, Varley KG, Borowski IF, Barwinsky J *Recent Adv Stud Cardiac Struct Metab 5: 177-87, 1975 (Eng)* *DL/76AUG831

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GLUCOCORTICOIDS AND TRIGLYCERIDE TRANSPORT: EFFECTS ON TRIGLYCERIDE SECRETION RATES, LIPOPROTEIN LIPASE, AND PLASMA LIPOPROTEINS IN THE RAT. Bagdade JD, Yee E, Albers J, Pykalisto OJ *Metabolism 25: 533-42, May 76 (Eng)* DL/76AUG246

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INOTROPIC ACTION OF TOLBUTAMIDE ON HUMAN MYOCARDIUM. Hildner FJ, Yeh BK, Javier RP, Fester A, Samet P *Cathet Cardiovasc Diagn 1: 47-57, 1975 (Eng)* DL/76AUG31

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VIRUS-INDUCED DIABETES MELLITUS. VI. GENETICALLY DETERMINED HOST DIFFERENCES IN THE REPLICATING OF ENCEPHALOMYOCARDITIS VIRUS IN PANCREATIC BETA CELLS. Yoon JW, Notkins AL *J Exp Med 143: 1170-85, 1 May 76 (Eng)* DL/76AUG190
ANIMAL EXPERIMENTS (analysis); CELLS, CULTURED; DIABETES MELLITUS (etiology, familial & genetic, pathology); EMBRYO (microbiology); ENCEPHALOMYOCARDITIS VIRUSES (growth & development); GENOTYPE; INSULIN (analysis); ISLANDS OF LANGERHANS (analysis, microbiology, pathology); KIDNEY (microbiology); MICE; MICE, INBRED STRAINS; SPECIES SPECIFICITY; VIRUS REPLICATION.

Yoshida M

A HIGH INCIDENCE OF POSITIVE PROVOCATION OF PLASMA PANCREATIC ENZYMES IN THE POORLY CONTROLLED DIABETIC SUBJECTS. Harano Y, Shimizu Y, Yoshida M, Dtani N, Kim CI *Acta Diabetol Lat 12: 177-84, May-Aug 75 (Eng)* DL/76AUG399

Young BA

TEMPERATURE-INDUCED CHANGES IN METABOLISM AND BODY WEIGHT OF CATTLE (BOS TAURUS). Young BA *Can J Physiol Pharmacol 53: 947-53, Oct 75 (Eng)* *DL/76AUG475
ACCLIMATIZATION; ANIMAL EXPERIMENTS; BASAL METABOLISM; BLOOD SUGAR (metabolism); BODY TEMPERATURE; BODY WEIGHT; CATTLE (metabolism); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HEART RATE; HEMATOCRIT; HUMIDITY; OXYGEN CONSUMPTION; RESPIRATION; SKIN TEMPERATURE; TEMPERATURE.

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THE METABOLISM OF INFUSED MALTOSE AND OTHER SUGARS. PP. 73-99. Young EA, Weser E *In0 Jeanes A, Hodge J, ed. Physiological effects of food carbohydrates. Washington, D.C., American Chemical Society, 1975. QU 75 A512p 1974. (Eng)* [88] DL/76AUG176
ADIPOSE TISSUE (metabolism); ADULT; ALCOHOL, ETHYL; AMINO ACIDS; ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); CARBOHYDRATES (administration & dosage); DIABETES MELLITUS (metabolism); FATS; FRUCTOSE (metabolism); GLUCOSE (metabolism); GLUCOSIDASES (metabolism); HUMAN; INSULIN (blood, pharmacodynamics); LACTOSE (metabolism); MALE; MALTOSE (administration & dosage, metabolism); MONOGRAPH (mortality); PARENTERAL FEEDING; PARENTERAL HYPERALIMENTATION; RATS; REVIEW; SORBITOL (metabolism); XYLITOL (metabolism).

Young JM

PROTON MAGNETIC RELAXATION STUDIES OF THE INTERACTION OF D-XYLOSE AND XYLITOL WITH D-XYLOSE ISOMERASE. CHARACTERIZATION OF METAL-ENZYME-SUBSTRATE INTERACTIONS. Young JM, Schray KJ, Mildvan AS *J Biol Chem 250: 9021-7, 10 Dec 75 (Eng)* *DL/76AUG531
BINDING SITES; CARBOHYDRATE ISOMERASES (metabolism); LACTOBACILLUS (enzymology); MANGANESE; MATHEMATICS; NUCLEAR MAGNETIC RESONANCE; PROTEIN BINDING; PROTEIN CONFORMATION; SPECIES SPECIFICITY; STREPTOMYCES (enzymology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.; XYLITOL; XYLOSE.

Young JW

USE OF 1,3-BUTANEDIOL FOR LACTATION AND GROWTH IN CATTLE. Young JW *Fed Proc 34: 2177-81, Nov 75 (Eng)* *DL/76AUG682
ACETOACETATES (metabolism); ACETONE (metabolism); ANIMAL; BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); BUTANEDIOLS (pharmacodynamics); CATTLE; DIET; FATS (analysis); FEMALE; HYDROXYBUTYRATES (metabolism); LACTATION (drug effects); LIPIDS (metabolism); MILK PROTEINS (metabolism); MILK (physiology); PHILIPPINES; PREGNANCY; RUMEN (physiology).

Yourovitskaya NV

CATABOLITE REPRESSION IN ESCHERICHIA COLI K12 MUTANTS DEFECTIVE IN GLUCOSE TRANSPORT. Gershanovitch VN, Yourovitskaya NV, Komissarova LV, Bolshakova TN, Erlagaeva RS, Bourd GI *Mol Gen Genet 140: 81-90, 15 Sep 75 (Eng)* *DL/76AUG748

Yudkin J

THE EFFECTS OF FEEDING STARCH, SUCROSE, GLUCOSE OR FRUCTOSE TO RATS DURING PREGNANCY AND EARLY LACTATION. Bourne AR, Richardson DP, Bruckdorfer KR, Yudkin J *Proc Nutr Soc 34: 80a-81a, Sep 75 (Eng)* *DL/76AUG772

THE EFFECT OF DIETARY SUCROSE AND DIFFERENT DIETARY FATS ON HYPER-

CARDIOVASCULAR DISEASES (chemically induced); DIABETES MELLITUS (etiology, surgery, therapy); HUMAN; INSULIN (therapeutic use); ISLANDS OF LANGERHANS (transplantation); PANCREAS (transplantation); TOLBUTAMIDE (adverse effects).

THE TOLBUTAMIDE CONTROVERSY. Anonymous *Compr Ther 1: 19-20, May 75 (Eng)* DL/76AUG51
CARDIOVASCULAR DISEASES (chemically induced, mortality); DIABETES MELLITUS (drug therapy); HUMAN; PHENFORMIN (adverse effects); TOLBUTAMIDE (adverse effects); UNITED STATES).

SUMMARY OF THE DISCUSSION ON THE THEME: BASIC CONCEPTS AND REQUIREMENTS DURING INTRAVENOUS ALIMENTATION. PP. 121-9. Anonymous *In0 Ahnefeld FW, et al., ed. Parenteral nutrition. Berlin, Springer, 1976. WB 410 I43 1974. (Eng)* DL/76AUG158
ALKALOSIS (therapy); AMINO ACIDS, ESSENTIAL; AMINO ACIDS, SULFUR (blood); BLOOD SUGAR (metabolism); FOOD HYPERSENSITIVITY; GLUCOSE (metabolism); HUMAN; HYPERGLYCEMIA (drug therapy); INSULIN (adverse effects, metabolism, therapeutic use); METABOLIC DISEASES (therapy); MONOGRAPH (mortality); NITROGEN (metabolism); NUTRITIONAL REQUIREMENTS; PARENTERAL FEEDING; PARENTERAL HYPERALIMENTATION.

PREVENTION OF CORONARY HEART DISEASE. REPORT OF A JOINT WORKING PARTY OF THE ROYAL COLLEGE OF PHYSICIANS OF LONDON AND THE BRITISH CARDIAC SOCIETY. Anonymous *J R Coll Physicians Lond 10: 213-75, Apr 76 (Eng)* DL/76AUG200
ADULT; AGED; CHILD; CONTRACEPTIVES, ORAL (adverse effects); CORONARY DISEASE (familial & genetic, mortality, prevention & control); DIABETIC ANGIOPATHIES (diet therapy); DIETARY HABITS; EXERTION; FEMALE; GREAT BRITAIN); HUMAN; HYPERLIPEMIA (diet therapy); HYPERTENSION (drug therapy); LONDON; MALE; MIDDLE AGE; OBESITY (diet therapy); PREVENTIVE HEALTH SERVICES; SMOKING (prevention & control); SOCIETIES, MEDICAL; STRESS, PSYCHOLOGICAL; WATER SUPPLY.

LETTER: THYROID HORMONES IN SERIOUS NON-THYROIDAL ILLNESS. Anonymous *Lancet 1: 1070-1, 15 May 76 (Eng)* DL/76AUG234
ACIDOSIS, DIABETIC (blood); ACUTE DISEASE; ANEMIA, PERNICIOUS (blood); BRAIN INJURIES, ACUTE (diagnosis); CHRONIC DISEASE; DIABETIC COMA (blood, drug therapy); HUMAN; INSULIN (therapeutic use); MYOCARDIAL INFARCT (blood); POSTOPERATIVE COMPLICATIONS (blood); THYROTROPIN (blood); THYROXINE (blood); TIME FACTORS; TRIIODOTHYRONINE (blood).

LETTER: HIGHLY PURIFIED INSULINS. Anonymous *Lancet 1: 1133-4, 22 May 76 (Eng)* DL/76AUG235
DIABETES MELLITUS (drug therapy); DOSE-RESPONSE RELATIONSHIP, DRUG); DRUG EVALUATION; HUMAN; INSULIN (administration & dosage, therapeutic use).

EDITORIAL: INSULIN INFUSION IN KETOACIDOSIS. Anonymous *Med J Aust 1: 2-3, 3-10Jan 76 (Eng)* DL/76AUG250
ACIDOSIS, DIABETIC (drug therapy); HUMAN; INFUSIONS, PARENTERAL; INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (drug therapy).

LETTER: TREATMENT OF DIABETIC KETOACIDOSIS. Anonymous *N Engl J Med 294: 1183-4, 20 May 76 (Eng)* DL/76AUG263
ACIDOSIS, DIABETIC (drug therapy); ADULT; CASE REPORT; HUMAN; INFUSIONS, PARENTERAL; INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (drug therapy); MALE.

LETTER: GLUCAGON AND BLOOD SUGAR. Anonymous *N Engl J Med 294: 1238-40, 27 May 76 (Eng)* DL/76AUG266
ADULT; BLOOD SUGAR (metabolism); DIABETES MELLITUS (blood); FEMALE; GLUCAGON (blood); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); ISLET CELL TUMOR; PANCREATIC NEOPLASMS (secretion).

INSULIN RECEPTORS, INSULIN RESISTANCE, DIABETES AND OBESITY. Anonymous *Nutr Rev 34: 145-8, May 76 (Eng) [14]* DL/76AUG277
ADULT; ANIMAL EXPERIMENTS (analysis); AUROTHIOGLUCOSE; BINDING SITES, ANTIBODY; DIABETES MELLITUS (metabolism); HUMAN; HYPERGLYCEMIA (metabolism); HYPERINSULINISM (metabolism); INSULIN ANTIBODIES; INSULIN RESISTANCE; INSULIN (physiology); MICE; MICE, OBESE; OBESITY IN DIABETES (metabolism); OBESITY (metabolism); OBESITY (chemically induced); RECEPTORS, HORMONE; REVIEW.

FASTING HYPOGLYCEMIA. A CLINICOPATHOLOGIC CONFERENCE FROM VETERANS ADMINISTRATION HOSPITAL HINES, ILLINOIS. Anonymous *Postgrad Med 59: 221-3, 225, Mar 76 (Eng)* DL/76AUG306
CASE REPORT; HUMAN; HYPOGLYCEMIA (etiology); ISLET CELL TUMOR (complications, diagnosis, pathology); MALE; MIDDLE AGE; PANCREATIC NEOPLASMS (complications, diagnosis, pathology).

TOTAL SYNTHESIS OF CRYSTALLINE GLUCAGON BY THE METHOD OF SOLID PHASE CONDENSATION OF FRAGMENTS. PROTEIN SYNTHESIS GROUP, SHANGHAI INSTITUTE OF BIOCHEMISTRY, ACADEMIA SINICA. Anonymous *Sci Sin 18: 745-68, Nov-Dec 75 (Eng)* DL/76AUG338
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PRELIMINARY REPORT ON EFFECTS OF PHOTOCOAGULATION THERAPY. THE DIABETIC RETIONPATHY STUDY RESEARCH GROUP. Anonymous *Am J Ophthalmol 81: 383-96, Apr 76 (Eng)* DL/76AUG433
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EDITORIAL: POLYUNSATURATED BEEF-EATERS. Anonymous *Lancet 2: 960-1, 15 Nov 75 (Eng)* *DL/76AUG567
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[NEW QUANTITATIVE DETERMINATION OF GLUCOSE IN BLOOD OR SERUM] Anonymous *Ther Gegw 114: 1465-6, Sep 75 (Ger)* *DL/76AUG848
BLOOD SUGAR (analysis); HUMAN; METHODS.

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